



Energy Report Summary for May 2008

Prepared for:



Natural Resources Canada
Ressources naturelles Canada

Canada

Prepared by:



*Science Applications International Corporation
(SAIC Canada)*

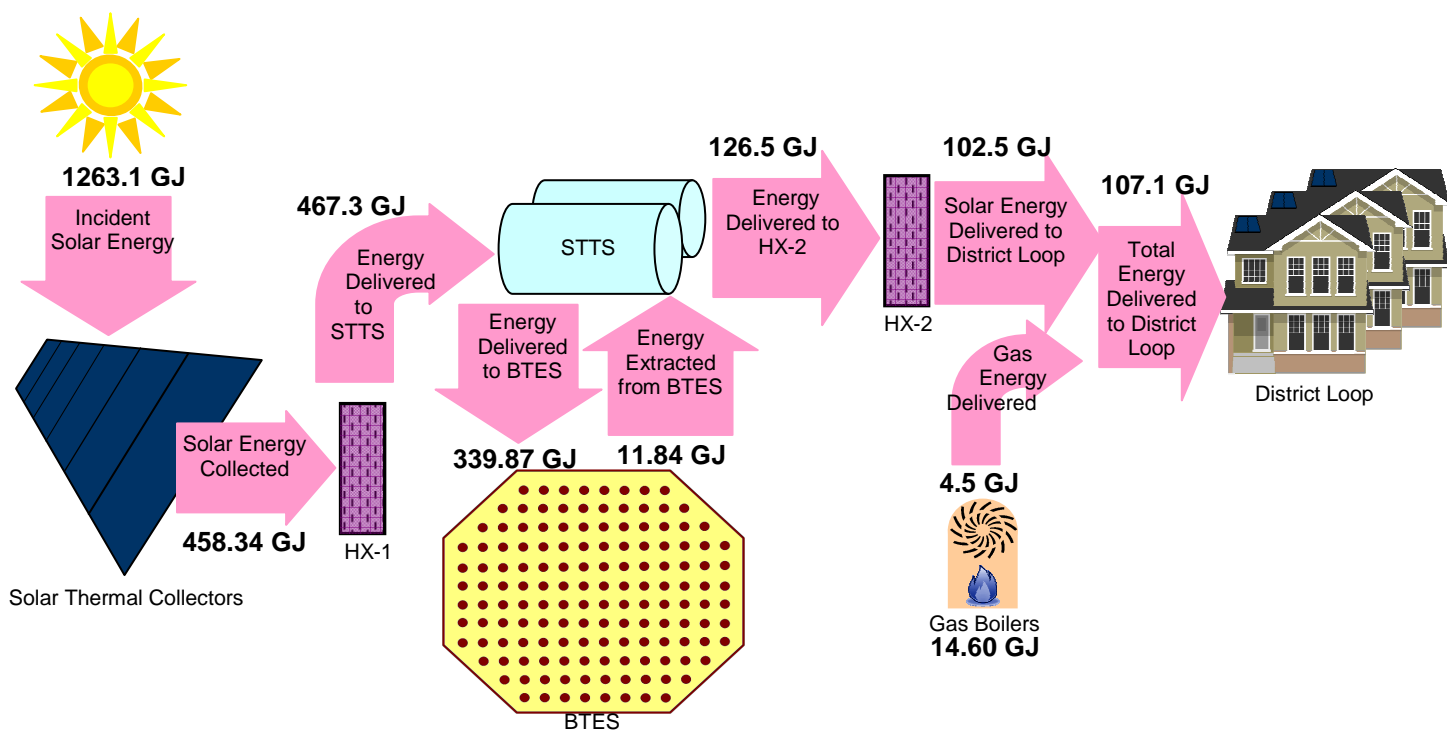
March 12, 2009
Document Version 5.1
CM002171

PROPRIETARY

Drake Landing Solar Community Energy Overview for May 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

Summary for May 2008		
Description	This Month	Since April 1, 2007
Total Incident Solar Energy for the month	1263.1 GJ	2585.4 GJ
Total Solar Energy Collected for the month ¹	458.34 GJ	891.3 GJ
Total Solar Energy Delivered to STTS for the month	467.3 GJ	909.8 GJ
Total Energy Delivered to BTES for the month	339.87 GJ	476.2 GJ
Total Energy Extracted from BTES for the month	11.84 GJ	14.8 GJ
Total Energy Delivered from STTS to HX-2	126.5 GJ	396.1 GJ
Total Solar Energy Delivered to District Loop for the month	102.5 GJ	332.5 GJ
Natural Gas Energy Used	14.60 GJ	30.3 GJ
Boiler Thermal Energy Delivered to the District Loop for the month	4.5 GJ	46.1 GJ
Total Energy Delivered to District Loop for the month	107.1 GJ	378.6 GJ
Average Solar Collector Efficiency for the month	36.3 %	34.5%
Average Efficiency of HX-1 for the month	102%	102.1%
Average Efficiency of HX-2 for the month	81.0%	83.9%
Average BTES core temperature for the month	44.65 °C	41.3 °C
Electrical energy used for the month	0.00 GJ	0.0 GJ
PV energy generated for the month	1.443 GJ	2.8 GJ
Net change in energy stored in STTS during the month	-1.47 GJ	22.0 GJ
Solar Fraction	95.7%	87.8%

¹ Corrected for glycol concentration variance