



Energy Report Summary for November 2008

Prepared for:



Natural Resources
Canada

Ressources naturelles
Canada

Canada

Prepared by:



*Science Applications International Corporation
(SAIC Canada)*

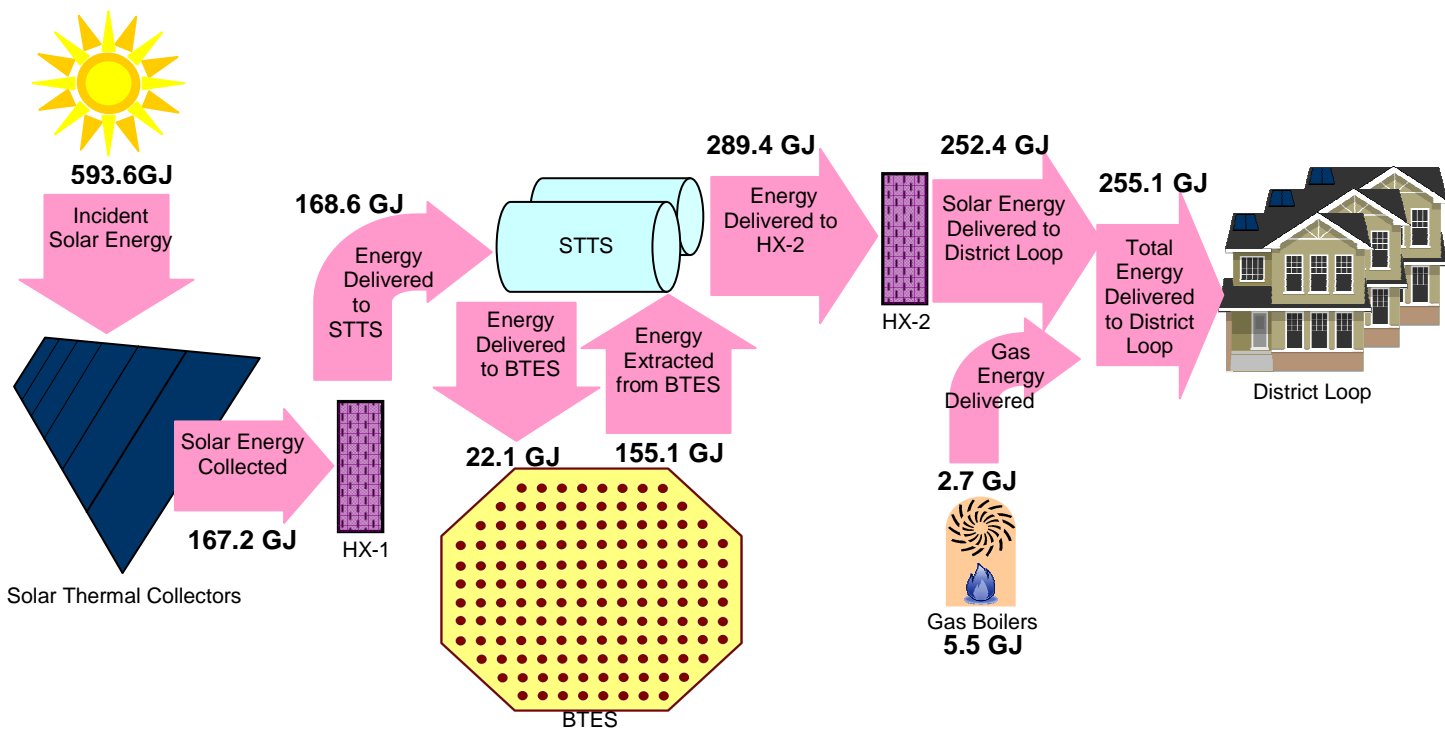
March 12, 2009
Document Version 5.1
CM002171

PROPRIETARY

Drake Landing Solar Community Energy Overview for November 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 November 2008		
Description	This Month	Since April 1, 2008
Total Incident Solar Energy for the month	593.6 GJ	9946.4 GJ
Total Solar Energy Collected for the month	167.2 GJ	3435.6 GJ
Total Solar Energy Delivered to STTS for the month	168.6 GJ	3527.0 GJ
Total Energy Delivered to BTES for the month	22.1 GJ	2616.8 GJ
Total Energy Extracted from BTES for the month	155.1 GJ	175.9 GJ
Total Energy Delivered from STTS to HX-2	289.4 GJ	1058.5 GJ
Total Solar Energy Delivered to District Loop for the month	252.4GJ	965.8 GJ
Natural Gas Energy Used	5.5 GJ	35.8 GJ
Boiler Thermal Energy Delivered to the District Loop for the month	2.7 GJ	48.8 GJ
Total Energy Delivered to District Loop for the month	255.1 GJ	1014.6 GJ
Average Solar Collector Efficiency for the month	28.2%	34.5%
Average Efficiency of HX-1 for the month	100.8%	102.7%
Average Efficiency of HX-2 for the month	87.2%	91.2%
Average BTES core temperature for the month	48.2°C	50.5 °C
Electrical energy used for the month	0.0GJ	45.9 GJ
PV energy generated for the month	0.5505 GJ	10.5 GJ
Net change in energy stored in STTS during the month	0.66 GJ	9.0 GJ
Solar Fraction	98.9%	95.2%