



Energy Report Summary for April 2009

Prepared for:



Natural Resources
Canada

Ressources Naturelles
Canada

Canada

Prepared by:



*Science Applications International Corporation
(SAIC Canada)*

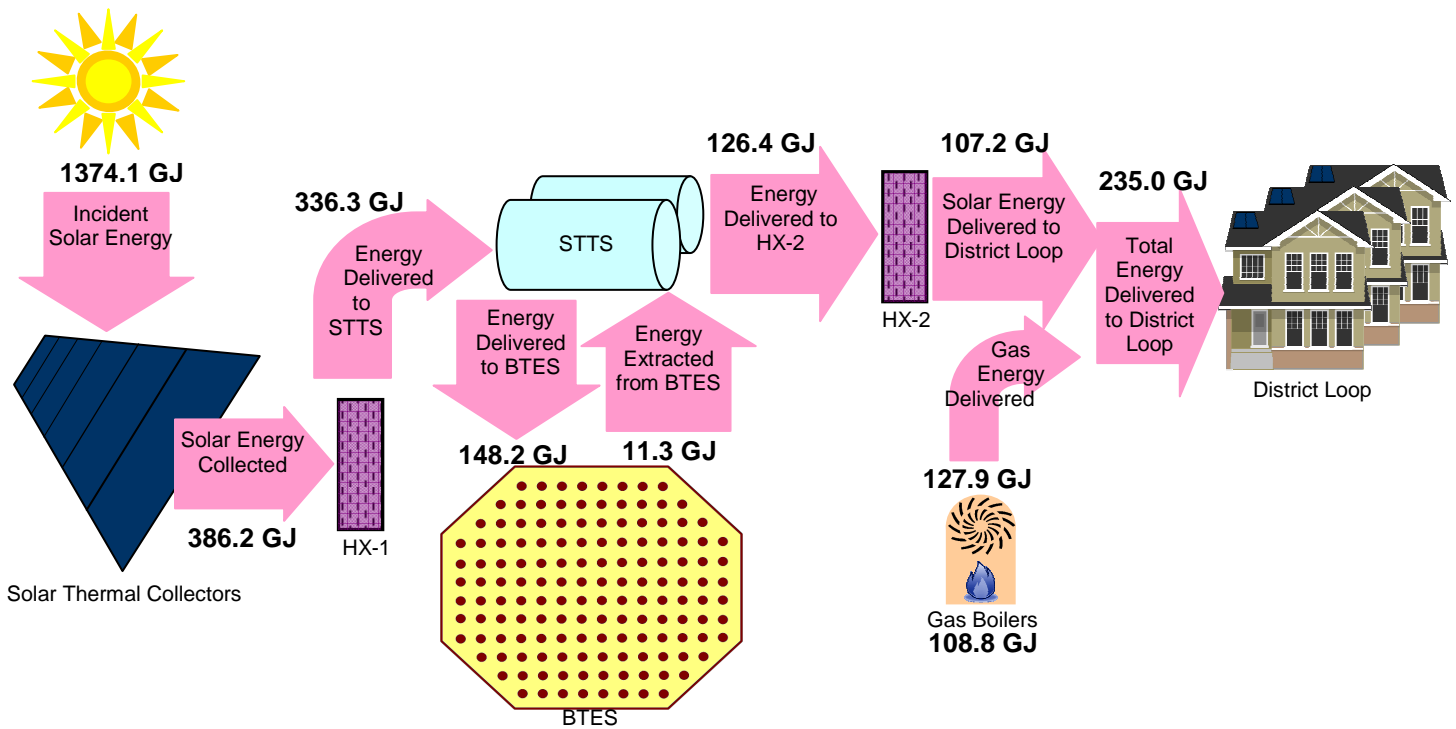
May 4, 2009
Document Version 1.0
CM002171

PROPRIETARY

Drake Landing Solar Community Energy Overview for April 2009

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 1 Summary for April 2009		
Description	This Month	Since July 1, 2008
Total Incident Solar Energy	1374.1 GJ	10878.4 GJ
Total Solar Energy Collected	386.2GJ	3468.9 GJ
Total Solar Energy Delivered to STTS	336.3 GJ	3251.6 GJ
Total Energy Delivered to BTES	148.2 GJ	1946.3 GJ
Total Energy Extracted from BTES	11.3 GJ	561.2 GJ
Total Energy Delivered from STTS to HX-2	126.4GJ	1552.1 GJ
Total Solar Energy Delivered to District Loop	107.2 GJ	1633.3 GJ
Natural Gas Energy Used	108.8 GJ	1157.1 GJ
Boiler Thermal Energy Delivered to the District Loop	127.9 GJ	1155.4 GJ
Total Energy Delivered to District Loop	235.0 GJ	2788.7 GJ
Average Solar Collector Efficiency	28.1 %	31.9%
Average Efficiency of HX-1	87.1 %	93.7%
Average Efficiency of HX-2	84.8 %	105.2%
Average BTES core temperature	33.3 °C	46.2 °C
Electrical energy used	0.0 GJ	90.2 GJ
PV energy generated	1.4093 GJ	10.4 GJ
Net change in energy stored in STTS	39.71 GJ	-2.6 GJ
Solar Fraction	45.6%	58.6%