

Energy Report Summary for July 2012

Prepared for:



Natural Resources
Canada

Ressources Naturelles
Canada

Canada

Prepared by:



*Science Applications International Corporation
(SAIC Canada)*

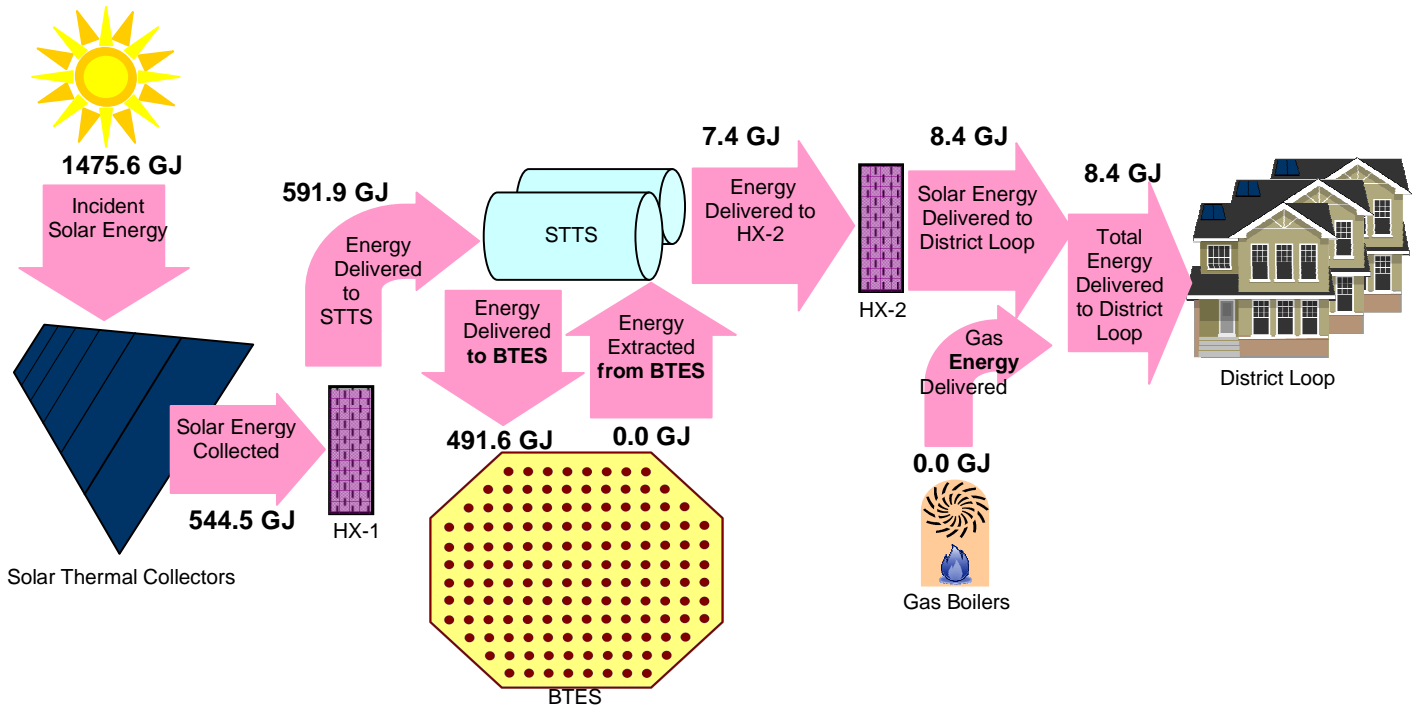
April 3, 2013
Document Version 1.0
CM002171

PROPRIETARY

Drake Landing Solar Community Energy Overview for July 2012

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 2012		
Description	This Month	Since July 1, 2012
Total Incident Solar Energy	1475.6 GJ	1475.6 GJ
Total Solar Energy Collected	544.5 GJ	544.5 GJ
Total Solar Energy Delivered to STTS	591.9 GJ	591.9 GJ
Total Energy Delivered to BTES	491.6 GJ	491.6 GJ
Total Energy Extracted from BTES	0.0 GJ	0.0 GJ
Total Energy Delivered from STTS to HX-2	7.4 GJ	7.4 GJ
Total Solar Energy Delivered to District Loop	8.4 GJ	8.4 GJ
Boiler Thermal Energy Delivered to the District Loop	0.0 GJ	0.0 GJ
Total Energy Delivered to District Loop	8.4 GJ	8.4 GJ
Average Solar Collector Efficiency	37 %	37 %
Average Efficiency of HX-1	109 %	109 %
Average Efficiency of HX-2	114 %	114 %
Average BTES core temperature	59.3 °C	59.3 °C
PV energy generated	1.6525 GJ	1.6525 GJ
Net change in energy stored in STTS	92.9 GJ	92.9 GJ
Solar Fraction	100.0 %	100.0 %