Energy Report Summary for July 2013

Prepared for:

Natural Resources Canada | Ressources Naturelles Canada

Canada

Prepared by:

SAIC®
From Science to Solutions

Science Applications International Corporation
(SAIC Canada)

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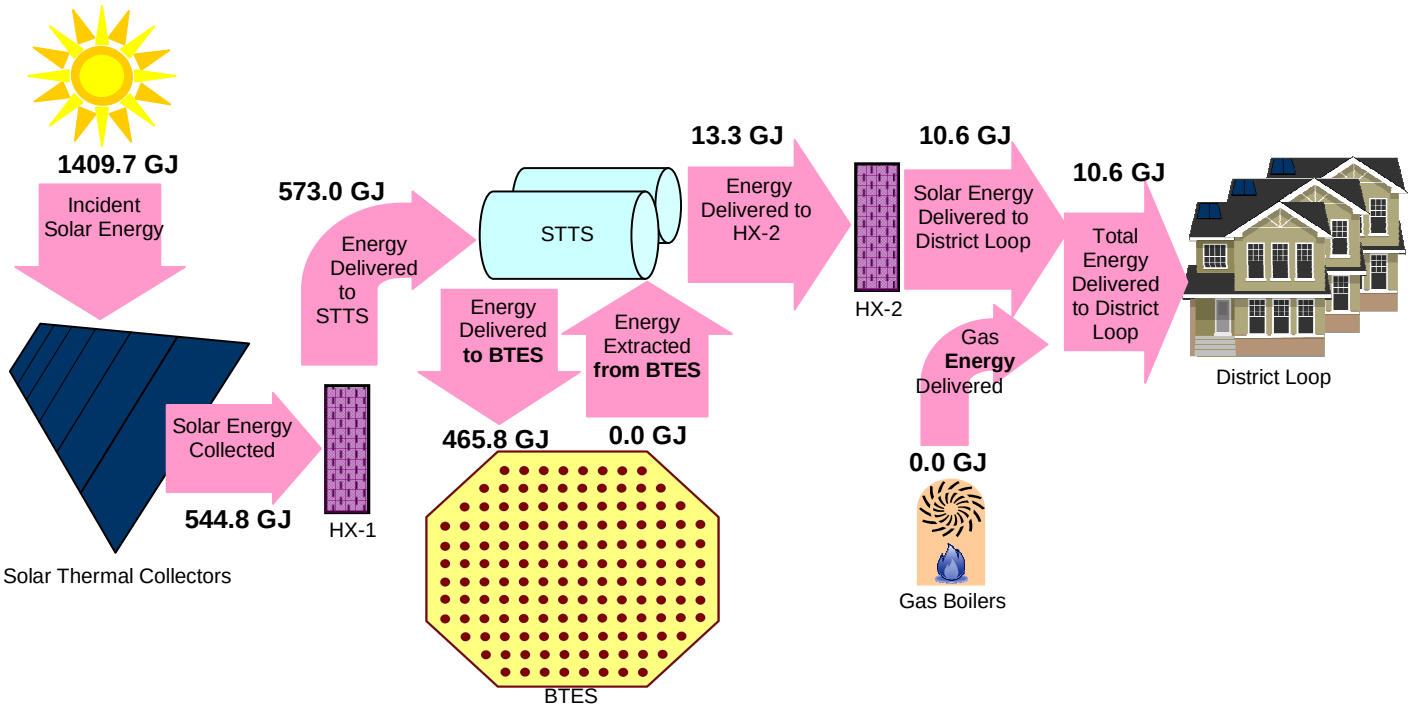
Drake Landing Solar Community Energy Overview for July 2013

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

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Table 0-1 Summary for July 2013		
Description	**This Month**	**Since July 1, 2013**
Total Incident Solar Energy	1409.7 GJ	1409.7 GJ
Total Solar Energy Collected	544.8 GJ	544.8 GJ
Total Solar Energy Delivered to STTS	573.0 GJ	573.0 GJ
Total Energy Delivered to BTES	465.8 GJ	465.8 GJ
Total Energy Extracted from BTES	0.0 GJ	0.0 GJ
Total Energy Delivered from STTS to HX-2	13.3 GJ	13.3 GJ
Total Solar Energy Delivered to District Loop	10.6 GJ	10.6 GJ
Boiler Thermal Energy Delivered to the District Loop	0.0 GJ	58.6 GJ
Total Energy Delivered to District Loop	10.6 GJ	10.6 GJ
Average Solar Collector Efficiency	39 %	39 %
Average Efficiency of HX-1	105 %	105 %
Average Efficiency of HX-2	80 %	80 %
Average BTES core temperature	57.9 ℃	57.9 ℃
PV energy generated	10.3 GJ	10.3 GJ
Net change in energy stored in STTS	93.9 GJ	93.9 GJ
Solar Fraction	100.0 %	100.0 %