Energy Report Summary for June 2012

Prepared for:

Natural Resources Canada | Ressources Naturelles Canada

Canada

Prepared by:

Science Applications International Corporation
(SAIC Canada)

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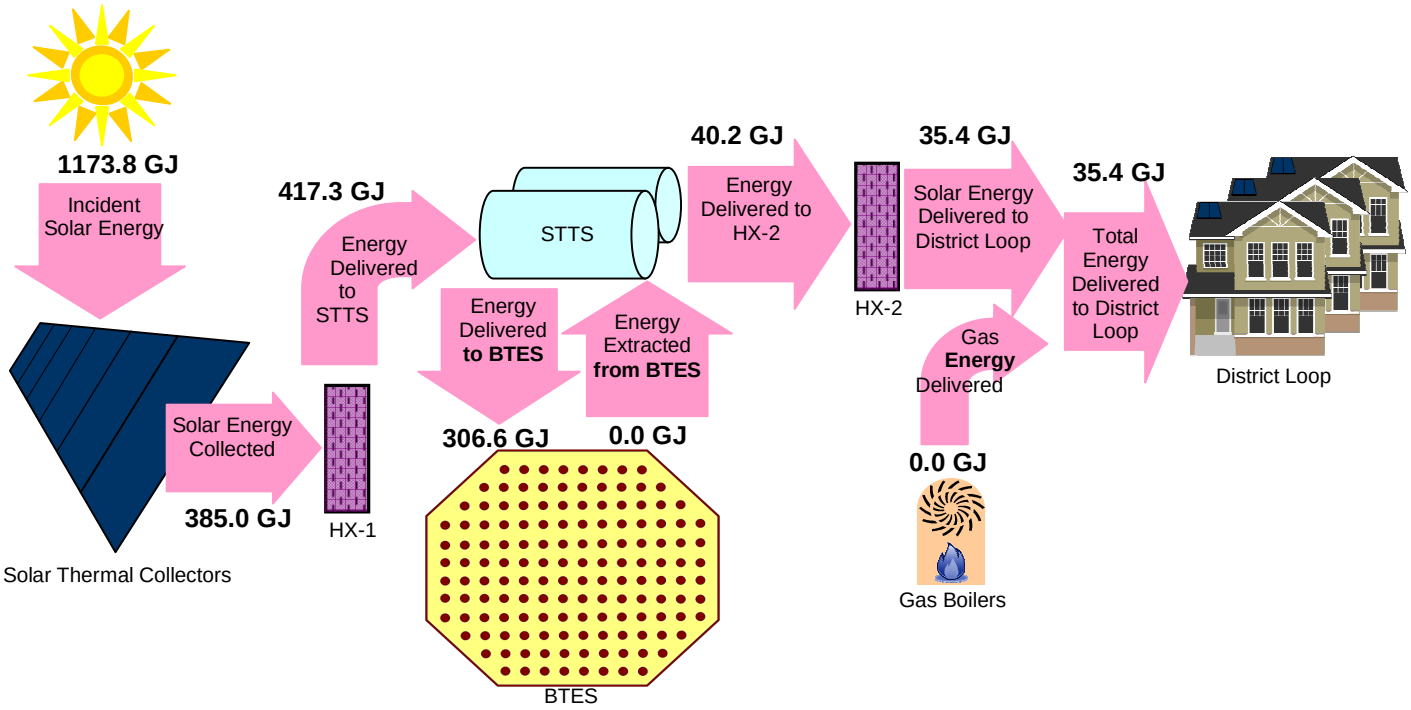
Drake Landing Solar Community Energy Overview for June 2012

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

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Table 0-1 Summary for June 2012		
Description	**This Month**	**Since July 1, 2011**
Total Incident Solar Energy	1173.8 GJ	12973.8 GJ
Total Solar Energy Collected	385.0 GJ	4428.0 GJ
Total Solar Energy Delivered to STTS	417.3 GJ	4590.9 GJ
Total Energy Delivered to BTES	306.6 GJ	2517.7 GJ
Total Energy Extracted from BTES	0.0 GJ	902.6 GJ
Total Energy Delivered from STTS to HX-2	40.2 GJ	2401.3 GJ
Total Solar Energy Delivered to District Loop	35.4 GJ	2047.9 GJ
Boiler Thermal Energy Delivered to the District Loop	0.0 GJ	67.6 GJ
Total Energy Delivered to District Loop	35.4 GJ	2118.6 GJ
Average Solar Collector Efficiency	33 %	34 %
Average Efficiency of HX-1	108 %	104 %
Average Efficiency of HX-2	88 %	85 %
Average BTES core temperature	55.6 ℃	56.9 ℃
PV energy generated	1.2987 GJ	12.4 GJ
Net change in energy stored in STTS	10.25 GJ	0.6 GJ
Solar Fraction	100.0 %	96.7 %

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