Energy Report Summary for December 2012

Prepared for:

Natural Resources Canada | Ressources Naturelles Canada

Canada

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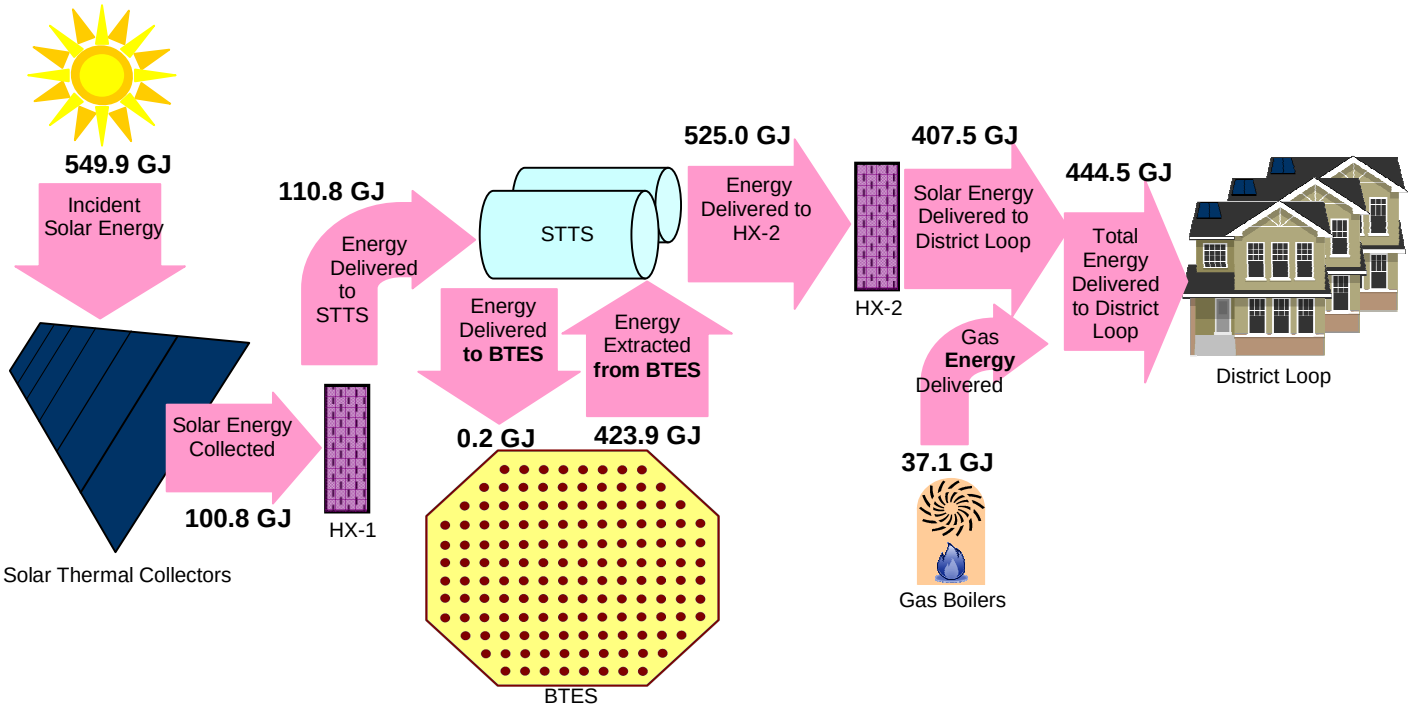
Drake Landing Solar Community Energy Overview for December 2012

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 December 2012

Description	This Month		Since July 1, 2012	
Total Incident Solar Energy	549.9	GJ	6308.6	GJ
Total Solar Energy Collected	100.8	GJ	2065.9	GJ
Total Solar Energy Delivered to STTS	110.8	GJ	2198.1	GJ
Total Energy Delivered to BTES	0.2	GJ	1498.5	GJ
Total Energy Extracted from BTES	423.9	GJ	794.3	GJ
Total Energy Delivered from STTS to HX-2	525.0	GJ	1185.0	GJ
Total Solar Energy Delivered to District Loop	407.5	GJ	1022.6	GJ
Boiler Thermal Energy Delivered to the District Loop	37.1	GJ	37.6	GJ
Total Energy Delivered to District Loop	444.5	GJ	1060.2	GJ
Average Solar Collector Efficiency	18	%	33	%
Average Efficiency of HX-1	110	%	106	%
Average Efficiency of HX-2	78	%	86	%
Average BTES core temperature	55.0	℃	60.6	℃
PV energy generated	0.4492	GJ	6.0	GJ
Net change in energy stored in STTS	153.2	GJ	510.4	GJ
Solar Fraction	91.7	%	96.5	%

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