



Energy Report Summary for December 2013

Prepared for:



Natural Resources
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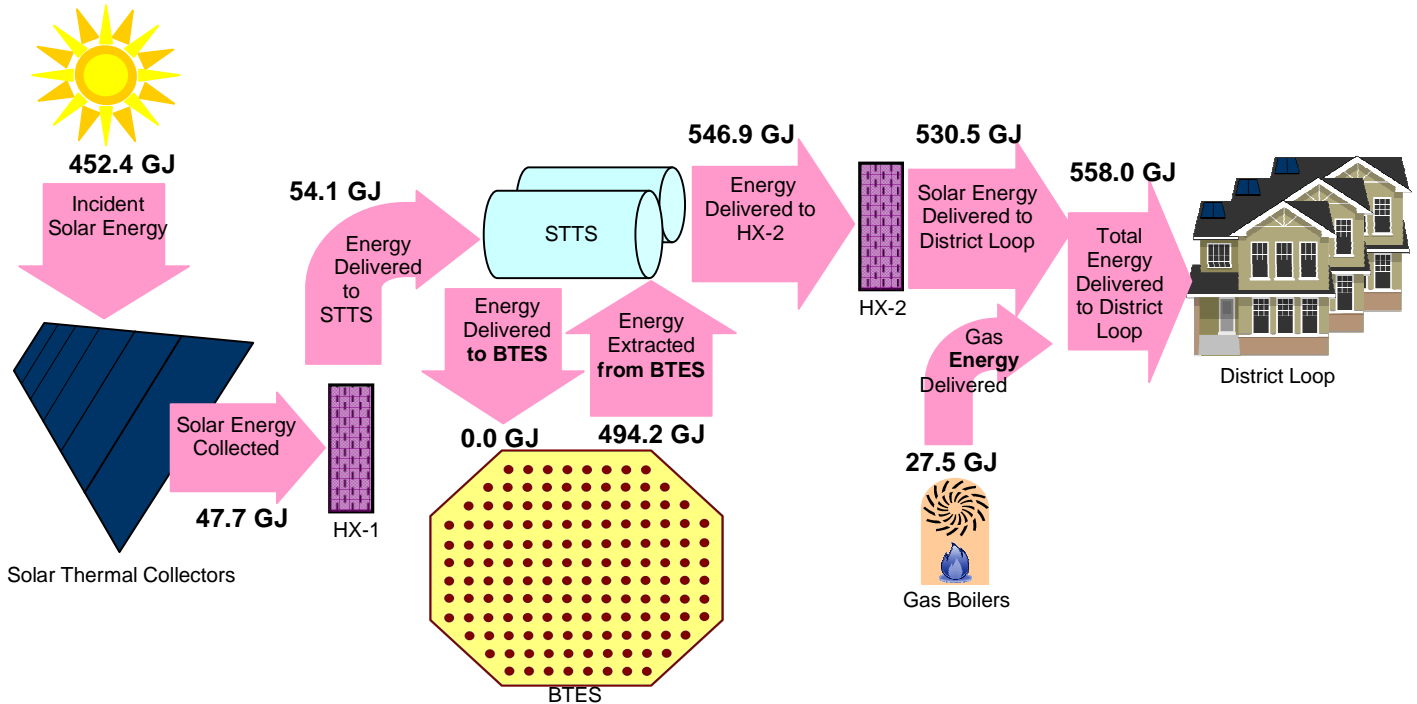
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PROPRIETARY

Drake Landing Solar Community Energy Overview for December 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

Summary for December 2013		
Description	This Month	Since July 1, 2013
Total Incident Solar Energy	452.4 GJ	6128.9 GJ
Total Solar Energy Collected	47.7 GJ	2061.9 GJ
Total Solar Energy Delivered to STTS	54.1 GJ	2186.3 GJ
Total Energy Delivered to BTES	0.0 GJ	1408.7 GJ
Total Energy Extracted from BTES	494.2 GJ	725.6 GJ
Total Energy Delivered from STTS to HX-2	546.9 GJ	1184.2 GJ
Total Solar Energy Delivered to District Loop	530.5 GJ	1130.6 GJ
Boiler Thermal Energy Delivered to the District Loop	27.5 GJ	27.5 GJ
Total Energy Delivered to District Loop	558.0 GJ	1158.1 GJ
Average Solar Collector Efficiency	11 %	34 %
Average Efficiency of HX-1	113 %	106 %
Average Efficiency of HX-2	97 %	95 %
Average BTES core temperature	51.1 °C	58.1 °C
PV energy generated	0.4 GJ	32.6 GJ
Net change in energy stored in STTS	1.4 GJ	335.0 GJ
Solar Fraction	95.1 %	97.6 %