

Energy Report Summary for March 2013

Prepared for:



Natural Resources
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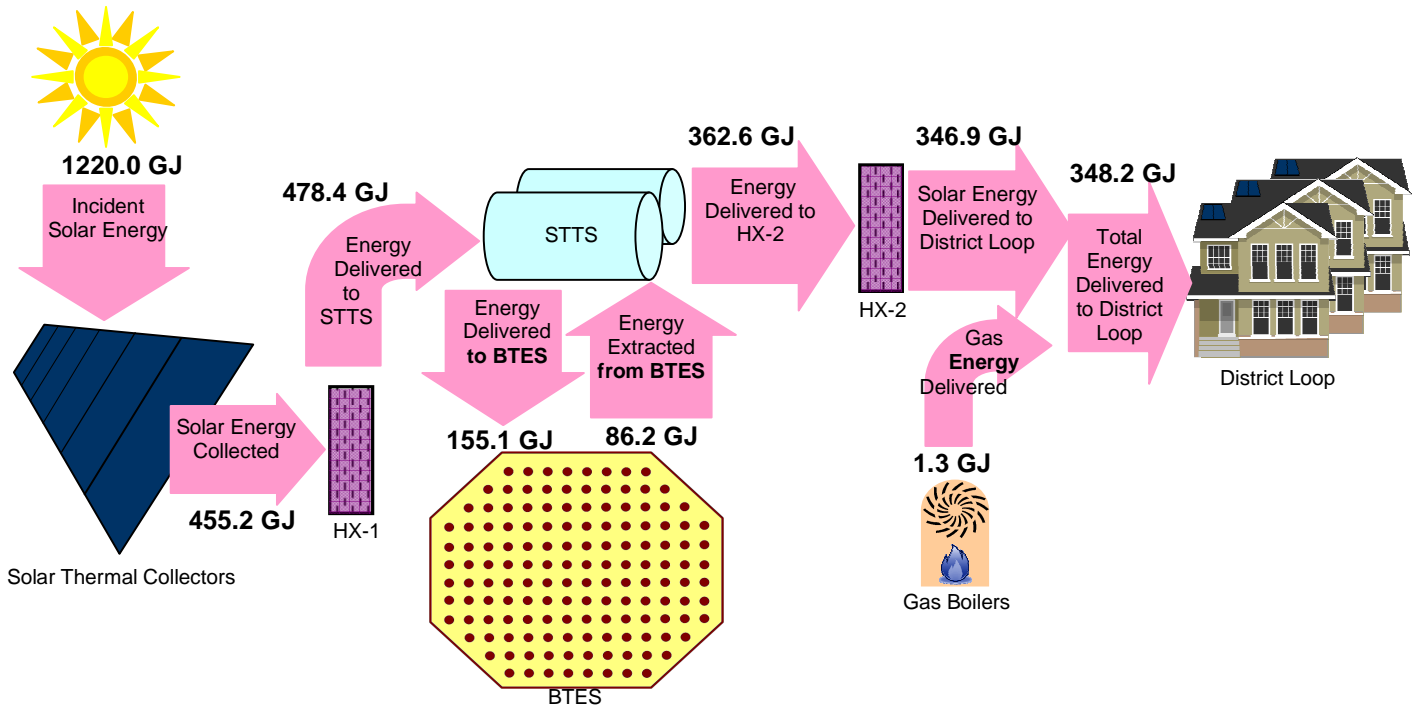
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Drake Landing Solar Community Energy Overview for March 2013

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

Table 0-1 Summary for March 2013		
Description	This Month	Since July 1, 2012
Total Incident Solar Energy	1220.0 GJ	9026.8 GJ
Total Solar Energy Collected	455.2 GJ	2989.6 GJ
Total Solar Energy Delivered to STTS	478.4 GJ	3175.2 GJ
Total Energy Delivered to BTES	155.1 GJ	1668.6 GJ
Total Energy Extracted from BTES	86.2 GJ	1248.8 GJ
Total Energy Delivered from STTS to HX-2	362.6 GJ	2336.7 GJ
Total Solar Energy Delivered to District Loop	346.9 GJ	2108.1 GJ
Boiler Thermal Energy Delivered to the District Loop	1.3 GJ	58.6 GJ
Total Energy Delivered to District Loop	348.2 GJ	2166.7 GJ
Average Solar Collector Efficiency	37 %	33 %
Average Efficiency of HX-1	105 %	106 %
Average Efficiency of HX-2	96 %	90 %
Average BTES core temperature	44.8 °C	56.0 °C
PV energy generated	7.6731 GJ	15.6 GJ
Net change in energy stored in STTS	81.9 GJ	606.6 GJ
Solar Fraction	99.6 %	97.3 %