

Energy Report Summary for September 2011

Prepared for:



Natural Resources
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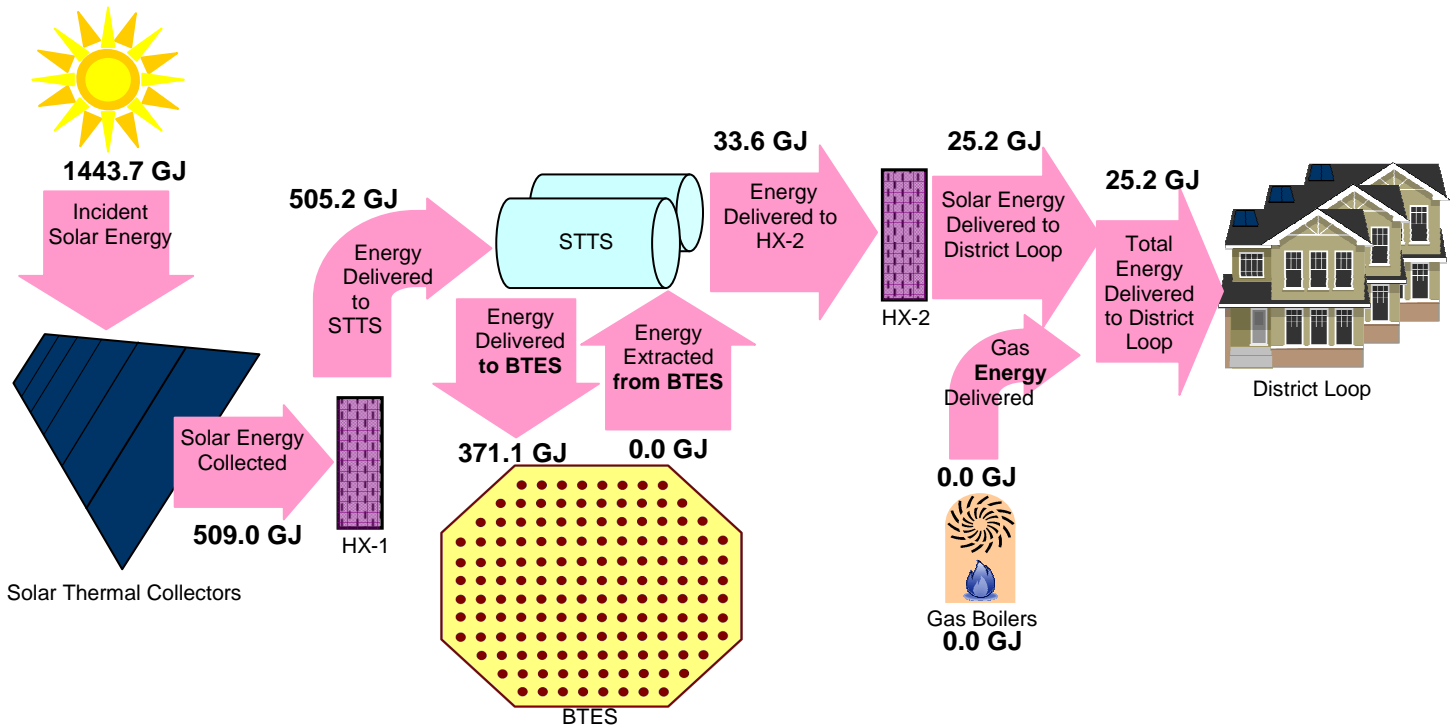
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Drake Landing Solar Community Energy Overview for September 2011

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 September 2011		
Description	This Month	Since July 1, 2011
Total Incident Solar Energy	1443.7 GJ	4677.0 GJ
Total Solar Energy Collected	509.0 GJ	1707.1 GJ
Total Solar Energy Delivered to STTS	505.2 GJ	1689.5 GJ
Total Energy Delivered to BTES	371.1 GJ	1404.8 GJ
Total Energy Extracted from BTES	0.0 GJ	0.0 GJ
Total Energy Delivered from STTS to HX-2	33.6 GJ	62.2 GJ
Total Solar Energy Delivered to District Loop	25.2 GJ	47.1 GJ
Natural Gas Energy Used	0.0 GJ	0.0 GJ
Boiler Thermal Energy Delivered to the District Loop	0.0 GJ	0.0 GJ
Total Energy Delivered to District Loop	25.2 GJ	47.1 GJ
Average Solar Collector Efficiency	35 %	36 %
Average Efficiency of HX-1	99 %	99 %
Average Efficiency of HX-2	75 %	76 %
Average BTES core temperature	64.1 °C	64.0 °C
Electrical energy used	0.0 GJ	3.1 ¹ GJ
PV energy generated	1.3851 GJ	4.9 GJ
Net change in energy stored in STTS	15.33 GJ	0.6 GJ
Solar Fraction	100.0 %	100.0 %

¹ The electrical energy used values are based on data from EPM-1 which has produced unreliable and incomplete data. The numbers given do not represent actual electrical consumption.