

Energy Report Summary for June 2010

Prepared for:



Natural Resources
Canada

Ressources Naturelles
Canada

Canada

Prepared by:



*Science Applications International Corporation
(SAIC Canada)*

July 6, 2010
Document Version 1.1
CM002171

PROPRIETARY

Drake Landing Solar Community Energy Overview for June 2010

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>

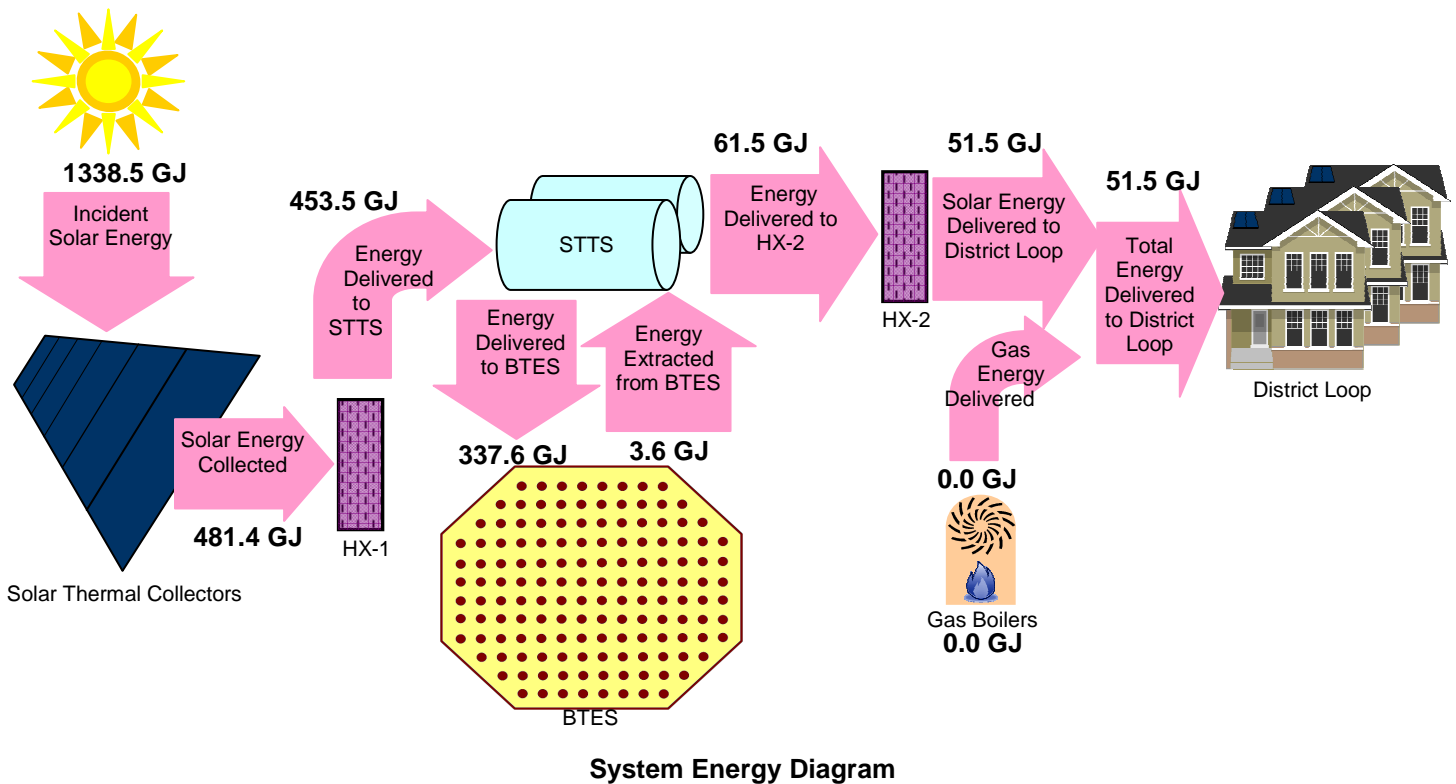


Table 0-1 Summary for June 2010		
Description	This Month	Since July 1, 2009
Total Incident Solar Energy	1338.5 GJ	12709.1 GJ
Total Solar Energy Collected	481.4 GJ	4267.5 GJ
Total Solar Energy Delivered to STTS	453.5 GJ	4042.5 GJ
Total Energy Delivered to BTES	337.6 GJ	2499.5 GJ
Total Energy Extracted from BTES	3.6 GJ	863.7 GJ
Total Energy Delivered from STTS to HX-2	61.5 GJ	2555.5 GJ
Total Solar Energy Delivered to District Loop	51.5 GJ	2026.2 GJ
Natural Gas Energy Used	0.0 GJ	543.6 GJ
Boiler Thermal Energy Delivered to the District Loop	0.0 GJ	519.5 GJ
Total Energy Delivered to District Loop	51.5 GJ	2545.6 GJ
Average Solar Collector Efficiency	36.0 %	33.6 %
Average Efficiency of HX-1	94.2 %	94.7 %
Average Efficiency of HX-2	83.7 %	79.3 %
Average BTES core temperature	57.3 °C	44.3 °C
Electrical energy used	2.8 GJ	118.8 GJ
PV energy generated	1.4892 GJ	12.8 GJ
Net change in energy stored in STTS	32.46 GJ	4.2 GJ
Solar Fraction	100.0 %	80 %