



Energy Report Summary for October 2008

Prepared for:



Natural Resources
Canada

Ressources naturelles
Canada

Canada

Prepared by:



*Science Applications International Corporation
(SAIC Canada)*

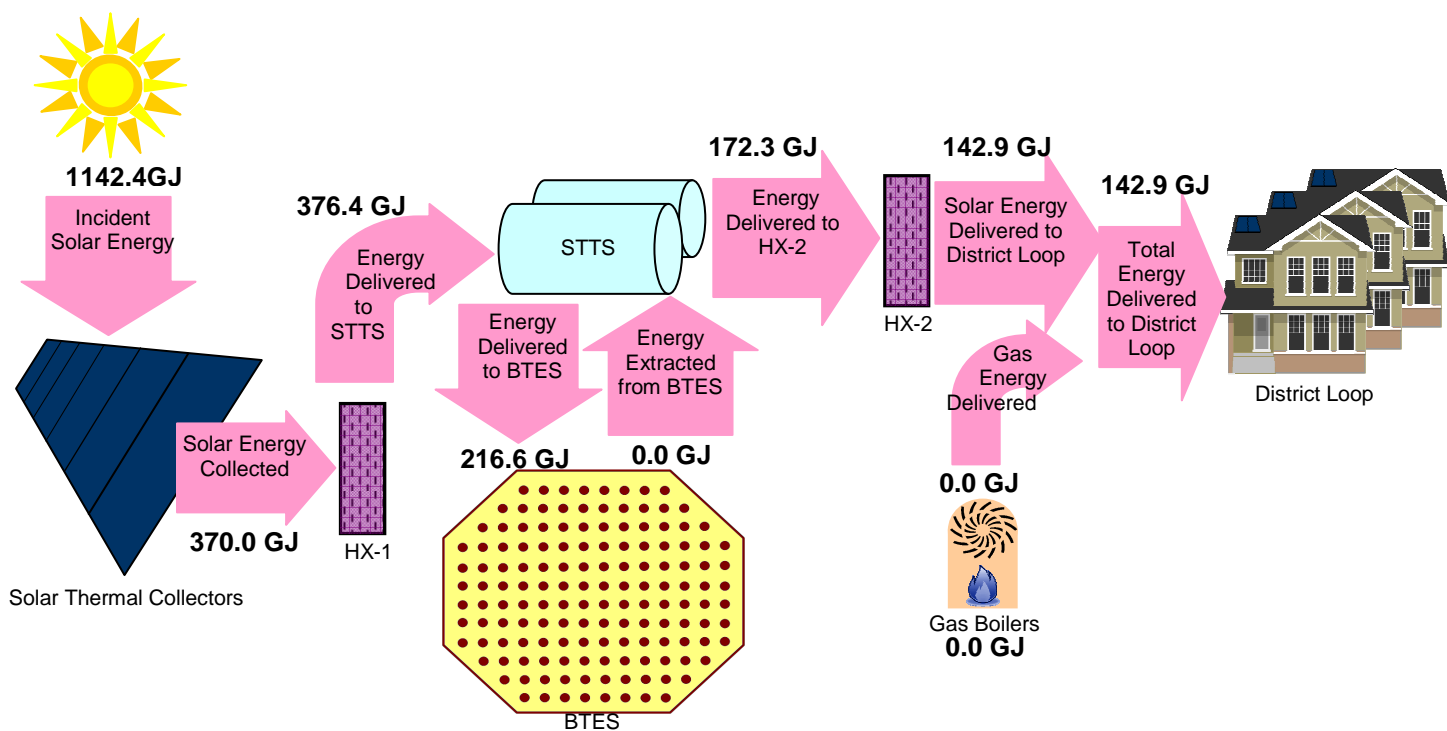
March 12, 2009
Document Version 5.1
CM002171

PROPRIETARY

Drake Landing Solar Community Energy Overview for October 2008

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 October 2008 | | |
|--|-------------------|----------------------------|
| Description | This Month | Since April 1, 2008 |
| Total Incident Solar Energy for the month | 1142.4 GJ | 9352.8 GJ |
| Total Solar Energy Collected for the month | 370.0 GJ | 3267.4 GJ |
| Total Solar Energy Delivered to STTS for the month | 376.4 GJ | 3358.4 GJ |
| Total Energy Delivered to BTES for the month | 216.6 GJ | 2594.7 GJ |
| Total Energy Extracted from BTES for the month | 0.0 GJ | 20.8 GJ |
| Total Energy Delivered from STTS to HX-2 | 172.3 GJ | 769.1 GJ |
| Total Solar Energy Delivered to District Loop for the month | 142.9GJ | 713.4 GJ |
| Natural Gas Energy Used | 0.0 GJ | 30.3 GJ |
| Boiler Thermal Energy Delivered to the District Loop for the month | 0.0 GJ | 46.1 GJ |
| Total Energy Delivered to District Loop for the month | 142.9 GJ | 759.5 GJ |
| Average Solar Collector Efficiency for the month | 32.4% | 34.9% |
| Average Efficiency of HX-1 for the month | 101.7% | 102.8% |
| Average Efficiency of HX-2 for the month | 83.9% | 92.8% |
| Average BTES core temperature for the month | 54.9 °C | 50.8 °C |
| Electrical energy used for the month | 4.1 GJ | 45.9 GJ |
| PV energy generated for the month | 1.0666 GJ | 9.9 GJ |
| Net change in energy stored in STTS during the month | -23.0 GJ | 8.3 GJ |
| Solar Fraction | 100% | 93.9% |