



Energy Report Summary for August 2007

Prepared for:



Natural Resources
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Prepared by:



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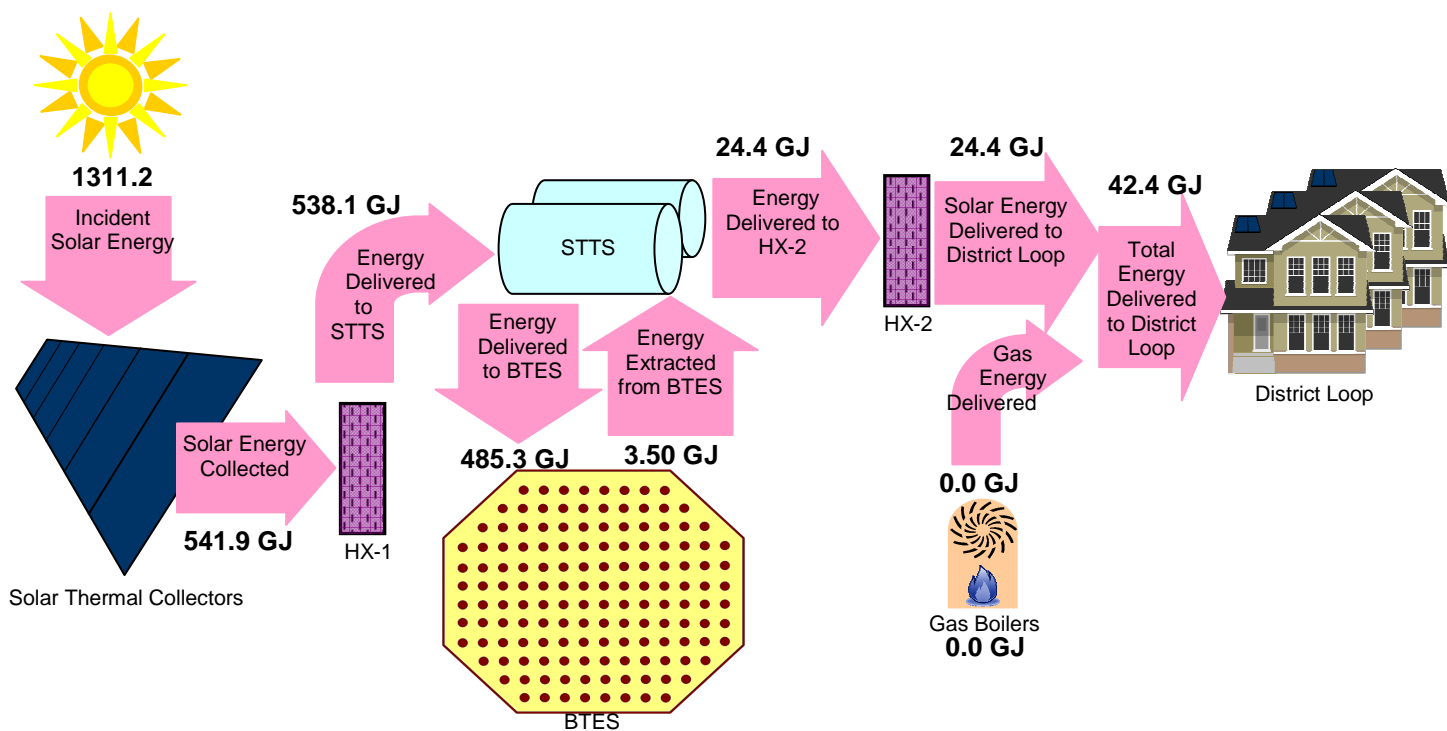
March 12, 2009
Document Version 5.1
CM002171

PROPRIETARY

Drake Landing Solar Community Energy Overview for August 2007

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 August 2007 | | |
|--|-------------------|---------------------------|
| Description | This Month | Since July 1, 2007 |
| Total Incident Solar Energy for the month | 1311.2 GJ | 3028 GJ |
| Total Solar Energy Collected for the month | 541.9 GJ | 1269 GJ |
| Total Solar Energy Delivered to STTS for the month | 538.1 GJ | 1331 GJ |
| Total Energy Delivered to BTES for the month | 485.3 GJ | 1228.3 GJ |
| Total Energy Extracted from BTES for the month | 3.50 GJ | 3.5 GJ |
| Total Energy Delivered from STTS to HX-2 | 24.4 GJ | 42.8 GJ |
| Total Solar Energy Delivered to District Loop for the month | 42.4 GJ | 75.0 GJ |
| Natural Gas Energy Used | 0.0 GJ | 3.7 GJ |
| Boiler Thermal Energy Delivered to the District Loop for the month | 0.0 GJ | 0.6 GJ |
| Total Energy Delivered to District Loop for the month | 42.4 GJ | 75.5 GJ |
| Average Solar Collector Efficiency for the month | 41.3% | 41.9% |
| Average Efficiency of HX-1 for the month | 99.3% | 95% |
| Average Efficiency of HX-2 for the month | 174% | 175% |
| Average BTES core temperature for the month | 43.18 °C | 42.83 °C |
| Average BTES core temperature at start of month | 43.71 °C | 43.98 °C |
| Average BTES core temperature at end of month | 45.17 °C | 44.44 °C |
| Change in average BTES core Temperature during the month | 1.45 °C | 0.46 |
| Electrical energy used for the month | 4.86 GJ | 24.83 GJ |
| PV energy generated for the month | 0.34 GJ | 0.34 GJ |
| Net change in energy stored in STTS during the month | - 3.36 GJ | -8.93 GJ |
| Solar Fraction | 100% | 99% |