



## Energy Report Summary for June 2009

Prepared for:



Natural Resources  
Canada

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Canada

Canada

Prepared by:



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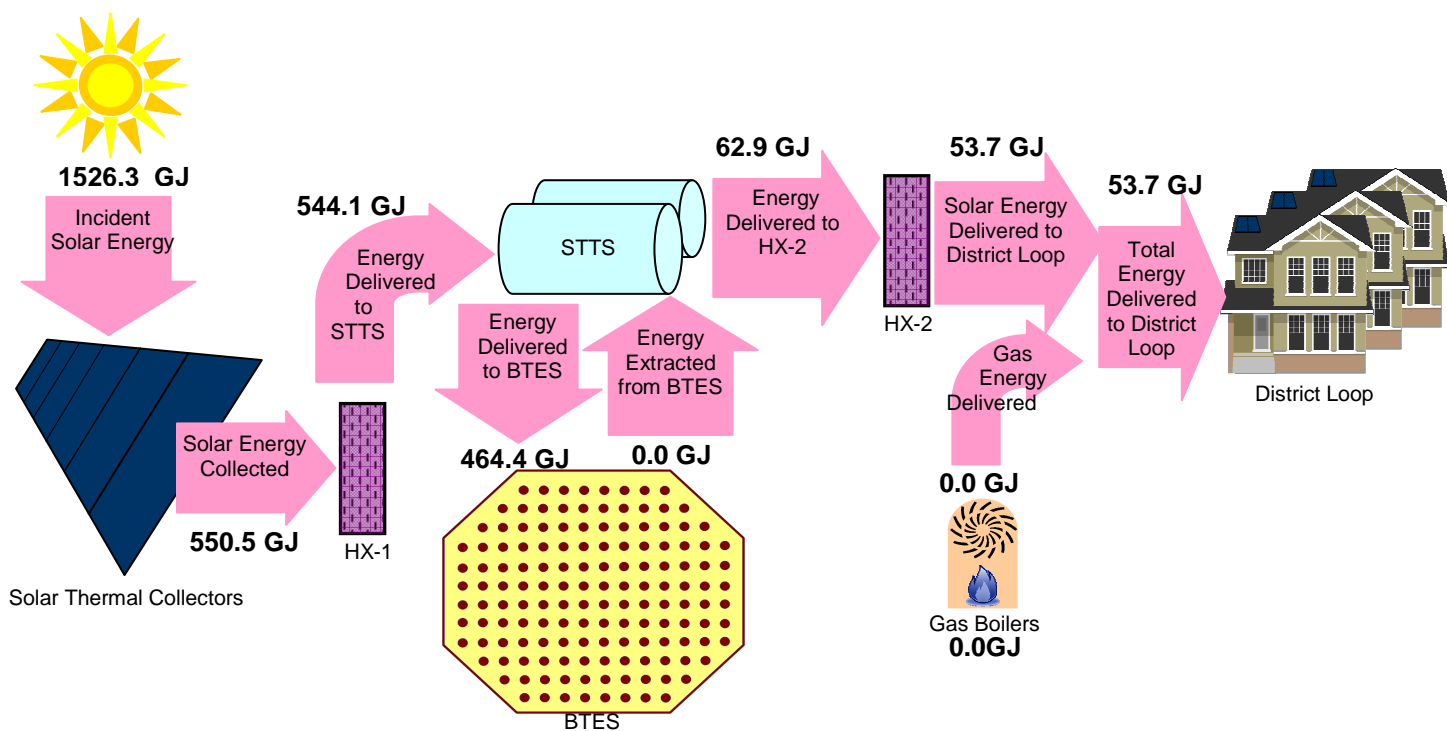
5 July, 2009  
Document Version 1.0  
CM002171

**PROPRIETARY**

## Drake Landing Solar Community Energy Overview for June 2009

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

| <b>Table 1 Summary for June 2009</b>                 |                   |                           |
|--|-------------------|---------------------------|
| <b>Description</b>                                   | <b>This Month</b> | <b>Since July 1, 2008</b> |
| Total Incident Solar Energy                          | 1526.3 GJ         | 13903.9 GJ                |
| Total Solar Energy Collected                         | 550.5 GJ          | 4581.3 GJ                 |
| Total Solar Energy Delivered to STTS                 | 544.1 GJ          | 4330.3 GJ                 |
| Total Energy Delivered to BTES                       | 464.4 GJ          | 2813.3 GJ                 |
| Total Energy Extracted from BTES                     | 0.0 GJ            | 561.7 GJ                  |
| Total Energy Delivered from STTS to HX-2             | 62.9 GJ           | 1737.1 GJ                 |
| Total Solar Energy Delivered to District Loop        | 53.7 GJ           | 1791.9 GJ                 |
| Natural Gas Energy Used                              | 0.0 GJ            | 1192.5 GJ                 |
| Boiler Thermal Energy Delivered to the District Loop | 0.0 GJ            | 1172.2 GJ                 |
| Total Energy Delivered to District Loop              | 53.7 GJ           | 2964.1 GJ                 |
| Average Solar Collector Efficiency                   | 36.1%             | 32.9%                     |
| Average Efficiency of HX-1                           | 98.8%             | 94.5%                     |
| Average Efficiency of HX-2                           | 85.4%             | 103.2%                    |
| Average BTES core temperature                        | 34.8 °C           | 44.2 °C                   |
| Electrical energy used                               | 0.0 GJ            | 90.2 GJ                   |
| PV energy generated                                  | 1.6855 GJ         | 13.7 GJ                   |
| Net change in energy stored in STTS                  | 1.93 GJ           | 8.2 GJ                    |
| Solar Fraction                                       | 100%              | 60.5%                     |