



Energy Report Summary for September 2015

Prepared for:



Natural Resources
Canada

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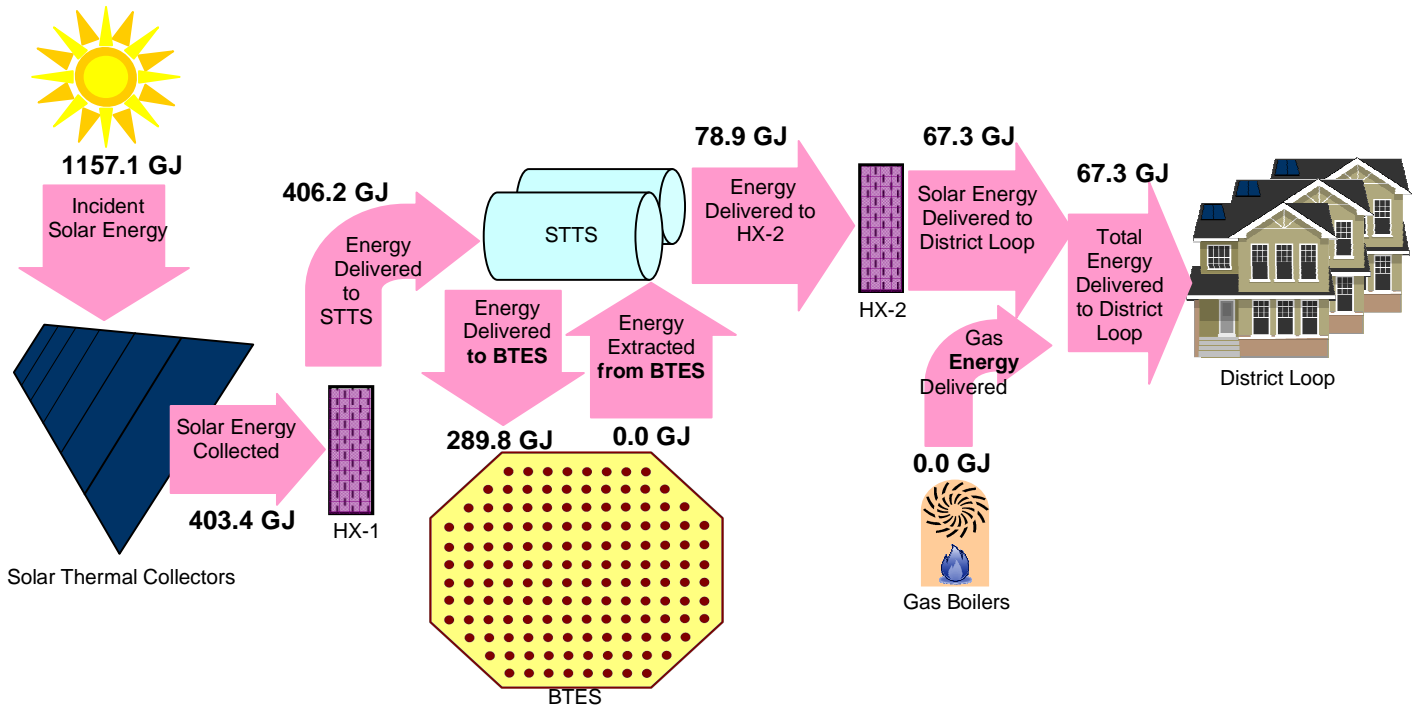
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PROPRIETARY

Drake Landing Solar Community Energy Overview for September 2015

This document summarizes the energy generated and used within the Drake Landing Solar Community at Okotoks Alberta.

Additional Information can be found here: <http://www.dlsc.ca>



System Energy Diagram

| Table 0-1 Summary for September 2015 | | |
|--|---------------------|---------------------------|
| Description | This Month | Since July 1, 2015 |
| Total Incident Solar Energy | 1157.1 GJ | 3829.4 GJ |
| Total Solar Energy Collected | 403.4 GJ | 1386.1 GJ |
| Total Solar Energy Delivered to STTS | 406.2 GJ | 1393.5 GJ |
| Total Energy Delivered to BTES | 289.8 GJ | 1159.0 GJ |
| Total Energy Extracted from BTES | 0.0 GJ | 0.0 GJ |
| Total Energy Delivered from STTS to HX-2 | 78.9 GJ | 125.5 GJ |
| Total Solar Energy Delivered to District Loop | 67.3 GJ | 107.9 GJ |
| Natural Gas Energy Used | 0.0 GJ ¹ | 0.0 GJ |
| Boiler Thermal Energy Delivered to the District Loop | 0.0 GJ | 0.0 GJ |
| Total Energy Delivered to District Loop | 67.3 GJ | 107.9 GJ |
| Average Solar Collector Efficiency | 35 % | 36 % |
| Average Efficiency of HX-1 | 101 % | 101 % |
| Average Efficiency of HX-2 | 85 % | 86 % |
| Average BTES core temperature | 58.3 °C | 58.0 °C |
| Electrical energy used | 6.7 GJ ² | 14.7 GJ ³ |
| PV energy generated | 6.9360 GJ | 27.3 GJ |
| Net change in energy stored in STTS | 37.5 GJ | 109.0 GJ |
| Solar Fraction | 100.0 % | 100.0 % |

¹ Gas consumption is reported during monthly maintenance inspections which may not coincide with the reporting period. The reported gas consumption is for the period between August 27, and September 30, 2015

² The electrical energy consumption is reported during monthly maintenance inspections which may not coincide with the reporting period. The reported gas consumption is for the period between August 27, and September 30, 2015.

³ Since June 30, 2015.