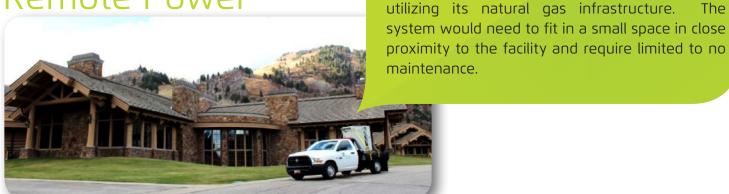
Case Study

Snowbasin SmartGen Remote Power



Qnergy Solution

Due to power outages at the site, SnowBasin was interested in testing a Qnergy SmartGen system as a source of alternative power at their centrally located Earl's Lodge. A 6 kW Remote Power system with additional Power Interface Package, battery enclosure (3000 AH) and inverter(single-phase 110Vac grid-tied) was delivered and installed at the Snowbasin resort facility through a 48Vdc architecture. The facility was upgraded to convert natural gas into electricty as a supply to the facility grid. Additional 120Vac 45A electrical outlets were installed for independent emergency electrical supply in case of grid failure.



Snowbasin Facility of Sinclair Oil Corp. was interested

in testing an independent uninterruptible power supply that would continuously deliver facility grid electricity and provide an emergency power

Results

Qnergy's SmartGen Remote Power system with additional accessories has been operating since November 1, 2016, with a daily NET power production of greater than 130 kW-hr. The system has operated continuously where temperatures have range from 23°C to -22°C and seasonal yearly snowfall is 350 inches.

Introduction

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Application	48Vdc/single-phase/grid-tied	
Operating Profile	Alternative Power Source, Independant Electrical Supply	
Power Ouput Configuration	110Vac, single-phase	
Power Output Setting	6000 watts	
Fuel Source	Natural Gas	



Qnergy at a Glance

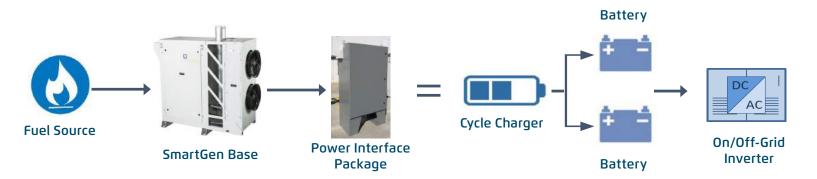


Qnergy is a company focused on providing energy to a world market looking for innovative, cost effective and efficient ways to energize the future. With more than 40 years of expertise and proven reliability, Qnergy brings proprietary, high-performance Stirling engine technology to the marketplace for commercial, industrial, and residential applications.

Qnergy products include the advanced free piston designed QB series Stirling engine generator that is incorporated into products for space and water heating as well as remote power for oil & gas, telecom, and other off-grid applications.

Qnergy has the ability to bring talent and technology together with its customers, suppliers, and investors to develop unique energy solutions for the 21st century. The company is headquartered in Ogden, Utah.

Snowbasin SmartGen Configuration (with options):



The SmartGen Series utilizes 5 standard configurations to meet your power needs.

About Snowbasin

Snowbasin Resort is one of the oldest continuously operating ski areas in the nation. The history of Snowbasin and the US Forest Service is a story of discovery, restoration and conservation of this unique and bountiful area as a special place of beauty and adventure.

On November 27, 1940, Snowbasin was declared officially open and began hosting the first of many ski races. Snowbasin Resort offers 3,000 acres of skiable land, which is 2,850 acres larger than the average ski resort and has a vertical well (base to peak) of 2,950 feet. Approximately 60% of Snowbasin remains on National Forest land. In 2002, Snowbasin hosted the Olympics and provided the venue for the men's and women's downhill, super G and combined races.

www.snowbasin.com



Contact Information

USA 300 W 12th Street Ogden UT 84404 | USA T. +1 (801) 752 0100 | info@qnergy.com