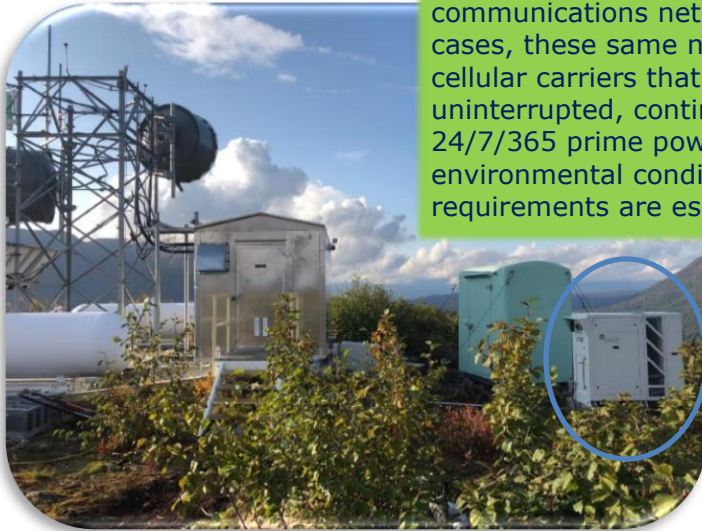


Success Story: Remote Power Prime Power for Telecom

The situation

Alaska Railroad operates a network infrastructure to support their communications network across the state of Alaska. In some cases, these same network locations support additional commercial cellular carriers that rely on Alaskan Railroad to provide them uninterrupted, continuous power. They are challenged to provide 24/7/365 prime power at these remote locations due to the harsh environmental conditions and limited access. Maintenance requirements are essential to project economics.



Qnergy Solution

Qnergy provided their efficient, multi-fuel PowerGen 5650 to supply AC power to the distribution panel and a 48 VDC UPS. The PowerGen "load-follows" the specific electrical demands, further reducing Propane consumption while guaranteeing the site equipment is always provided with sufficient power when demanded. The fuel consumption reduction versus conventional remote power solutions offer substantial savings + increased reliability.

Helicopter view of system in winter



PG 5650

| | | |
|----------------------------|-----------------------------|-------------------------------|
| Application | Distribution Panel AC Power | Booster |
| Operating Profile | 24/7 continuous prime Power | 24/7 continuously Prime Power |
| Power Output Configuration | AC, Single Phase | 48 VDC Single Phase |
| Power Output Setting | As required | As Required |
| Fuel Source | Propane | |

Result

The PowerGen provides continuous power to multiple remote telecommunications sites across Alaska while significantly reducing costs associated with service calls, helicopter trips and fuel.