

TRANS-ALASKA BUILDING

PROJECT OVERVIEW

The Trans-Alaska Building is a 20,000 square foot office complex that houses Alaska Family Services and other professional and administrative offices in Wasilla, Alaska. KI Energy installed a 35kW Yanmar natural gas blackout start cogenerations system outside to provide consistent, cost effective heat and electrical power to the buildings many tenants.



REASON FOR CHOSING YANMAR

Having already completed two installations in rural Alaska, KI Energy wanted the opportunity to install YANMAR's first and newest CHP system, and the TransAlaska building was the perfect site. Located in Wasilla, which is the fastest growing area in the state, this building suffered from an outdated HVAC system and high electrical costs.

The Yanmar 35kW CHP system was chosen due to its ability to offer reliable heat, power, and utility black out operation, allowing business as usual even during utility power outages. By switching to the Yanmar 35kW CHP using clean burning natural gas the building has saved 90%per month in electrical costs, while gaining stable heat and power 24hrs. a day.

In addition, the system offered several other benefits such as quiet operation, plug and play installation, long maintenance intervals and dependable customer support.

ABOUT CP35D1Z

Using natural gas, the CP35D1Z's high-efficiency permanent magnetic generator provides 35kW of electrical power. The engine heat is captured, and heats water at a rated temperature of 176 °F for immediate use or storage in your facility.

Quick Facts

Application: Office Building

Location: Wasilla, Alaska

Operation Date: September 2016

Product Installed: CP35D1Z-TNUG

Results:

- High electrical utilization (98%)
- Quiet operation 64 dB(A) at 3ft.
- Consistently reliable operation

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“The Yanmar CHP has exceeded expectations, and the reliability is great! I love that the Yanmar CHP is still running like new even after 4yrs and over 30,000hrs. The system even ran with no issues during our biggest black out (earthquake) 7.0 Nov. 2018”

President of KI Holdings Inc.



Results

- Overall, The CP35D1Z's electrical utilization of 98% over operation period
- Average Electrical savings of 90%
- The system has provided consistently reliable operation for over 30,000 hours

Conclusion

- The project successfully demonstrates the application of a Yanmar CHP at the building. The unit has lived up to its promise of high reliability and savings. Due to a well-designed project application

