



“We just completed our first maintenance after running the YANMAR CHP system for 10 months straight. Our electric bill has been significantly reduced since installing YANMAR’s 35 kW unit, and we are very happy with the savings.” - Property Owner



Project Overview

This facility is an 11-story family-friendly apartment building located in Mississauga, Ontario. The building consists of multiple one and two bedroom apartments for rent, and is serviced by a centralized boiler system for building heating. DBS installed one 35 kW YAN MAR combined heat and power (CHP) system to provide both useful heat and power to the building's residences.

Reason for Choosing YANMAR

As a multi-family apartment building, the property owner wanted a system that would save operating costs, while also providing reliable, efficient operation. YANMAR's CP35D1-TNUG unit is able to produce 204,040 BTUs of heat per hour and 35 kW of electricity on site using a natural gas engine.

The system operates with an overall efficiency of 88% and a noise rating of 62 dB(A) from three feet, which means there is no disturbance to the building's residents. Plus, the system is able to modulate to match the building's load, which is typically lower during nighttime hours and the shoulder season.

In addition, the YANMAR system also provides consistent operation with a 7,500 hour maintenance interval and 24/7 remote monitoring capabilities for faster unit servicing by their local dealer, DBS (www.dbspowerenergy.com).

About YANMAR America Energy Systems

YANMAR America Energy Systems in the North, Central and South American headquarters for the company's Variable Refrigerant Flow and Combined Heat and Power systems. Our team and products are focused on sustainability, reliability, and efficiency.



QUICK FACTS

APPLICATION: Multi Family **LOCATION:** Mississauga, ON **COMMISSIONING DATE:** February 2018 **PRODUCT INSTALLED:** CP35D1-TNUG **RESULTS:** Consistently reliable operation / Clean, efficient natural gas / 7,500-hour maintenance interval / Modulation to match building load



RESULTS

- The CP35D1 has resulted in an average monthly savings of \$2,400 by switching to natural gas driven electric and heat production. Total savings for March through October 2018 is over \$16,500.
- The unit has provided consistently reliable operation with an average of 725 operation hours per month.

CONCLUSION

The project successfully demonstrates the application of YANMAR's CHP system for a multi-family apartment building. The unit has lived up to its promise of high reliability and savings during the first nine months of operation due to a well-designed project application.

YANMMAR mCHP savings - March through October 2018

