



Project Experience

OVERVIEW

Bastyr University is a 51-acre campus located in Kenmore, Washington on the northeast shore of Lake Washington. Originally built in 1958 as a Catholic seminary, the facility has been used by Bastyr University since 1996. The facility is a mixture of education, office, and residential uses. The original facility included over 160 bedrooms for clergy members and was designed in a dormitory fashion. The original plumbing system is still installed and operational because the top floor is maintained as a residential space.

SERVICES PROVIDED

Treasa Sweek was the commissioning agent on this project, working with Paladino and Company. Following Puget Sound Energy's CBTU program, we assessed the building's operations through direct physical testing and observation over a period of 8 months. We developed a menu of energy efficiency improvements spanning as thermal comfort and building pressure as well as controls adjustments and equipment scheduling. Bastyr selected and implemented 14 measures. After implementation, we measured the effectiveness of each measure and estimated energy savings.

SUCCESS STORY

The commissioning process codified a "facility guide" that describes how the facility can be operated efficiently through three distinct modes: school holiday, heating mode, and cooling mode. Since much of the facility is manually operated, the facility guide is a day-to-day summary for new staff to quickly understand the efficient way to operate the building.

SYSTEMS TESTED

- Building envelope: air flow and pressure, ventilation design (both induced and natural ventilation)
- Steam heating system with large boilers, hot water converters, and hydronic pumps
- Custom built air handling units, steam heaters, exhaust fans, and a small building automation system

Bastyr University

187,000 ft² main building

51-acre university campus adjacent to a state park

Constructed 1958 as a catholic seminary

Puget Sound Energy's Comprehensive Building Tune-up (CBTU) Program



Bastyr University, main building

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