Seattle, WA

AIRPORT REDUCES HVAC EUI BY 81%

CASE STUDY PUBLIC SPACES

Airport Reduces Energy Usage and Improves Air Quality

A historic public airport terminal handles over 200,000 flights per year due to its close proximity to downtown Seattle. During a recent renovation, the HVAC system retrofit included (3) Ventacity VS1000 RT and a new VRF heating and cooling system. The HVAC design goal was centered around reducing the HVAC EUI to below 50 kBTUH / ft² / year, primarily to reduce cost of operation. Improved indoor air quality was an important secondary goal. The results exceeded the design goal thanks to the reliable performance of the Ventacity ventilation products installed.

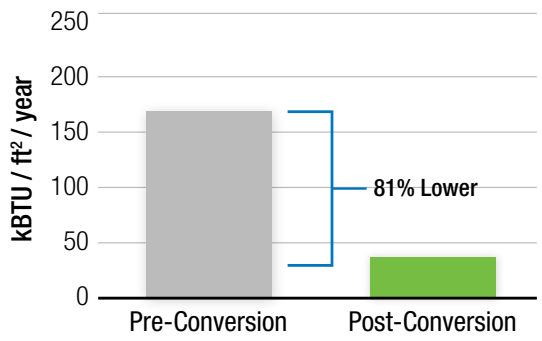
INSTALLATION FACTS

Building Construction Year	1930
Occupancy Type	Airport
Number of Stories	2
Conditioned Area	26,000 ft²
Ownership	County Government

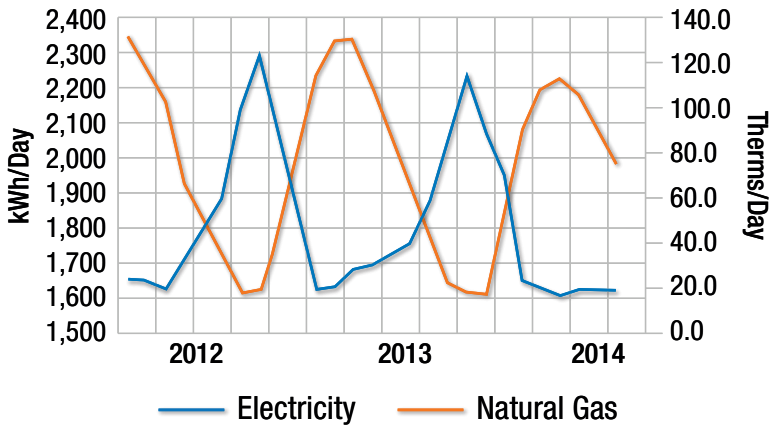
HVAC FACTS

	Pre-Conversion	Post-Conversion
Fuel Source	**Heat:** Natural Gas; **Cool:** Electricity	**Heat:** VRF Heat Pump; **Cool:** VRF Heat Pump
HVAC System	(3) Multi-Zone Air Handlers	(3) VS 1000 RT; (3) VRF Heat Pumps
CFM	3,200	600
Tons	8	6

HVAC ENERGY USE INTENSITY



PEAK SEASONAL ENERGY USE *(PRE-CONVERSION)*



VENTACITYSYSTEMS
Making Buildings Healthy – Efficient – Smarter

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