

Betsy Ross Crossing

New Development Saves 640,184 kWh Annually



Betsy Ross Crossing is a new multifamily building in South Portland that offers 52 dwelling units for low-income residents who are 55 years old or older. The units feature high-efficiency, all-electric ventilation, and heat-pump-based heating and cooling.

Owned and operated by the South Portland Housing Authority, the Betsy Ross Crossing project illustrates how multifamily buildings can leverage Efficiency Maine incentives to save money in the near term on higher-efficiency equipment that saves energy in the long term.

At Betsy Ross Crossing, heat pump technology is used to heat and cool over 39,000 sq. ft. Five Variable Refrigerant Flow (VRF) units are the cornerstone of the HVAC system. These VRF units can simultaneously heat and cool different spaces within the building, streamlining the work of space heating and cooling into one consolidated system.



VRF equipment at Betsy Ross Crossing

By the Numbers

Five

Variable Refrigerant Flow (VRF) units.

Three

Energy Recovery Ventilators (ERV).

\$278,402

Efficiency Maine incentive.

640,184 kWh

Estimated annual energy savings.

Three Energy Recovery Ventilators (ERVs) further improve system efficiency by removing heat (or cold) from exhaust air and introducing it to the incoming supply air. This reduces the VRF's workload, resulting in significant estimated energy savings.

By electrifying the whole-building HVAC system with high-efficiency equipment, the project received \$278,402 in Efficiency Maine rebates; approximately 17% of the entire HVAC project budget. The new system will save approximately 640,184 kWh of total annual estimated energy savings.

Learn more at efficiencymaine.com/at-work/multifamily.

