



# IT'S JUST SMART BUSINESS

STREETCAR LOFTS CONDOMINIUM REDUCES ENERGY COSTS BY AN ESTIMATED \$46,000 ANNUALLY WITH ENERGY-EFFICIENT EXHAUST FANS

## STREETCAR LOFTS **PROJECT-AT-A-GLANCE**

- energy cost savings

- 298 tons carbon dioxide

The 59 rooftop exhaust fans of Streetcar Lofts, a midrise condominium building in Portland, were working overtime to ventilate the 127,000-square-foot complex. Residents of the electrically heated and cooled building reported drafty conditions and high energy costs. Continuous negative pressurization issues prompted Multi-Services, Inc., a Portland-based homeowners association and management company for Streetcar Lofts, to investigate the building's mechanical systems.

Energy Trust of Oregon completed a technical analysis study of the building and determined that the existing ventilation system was changing the air in the building at almost three times the rate required by building code, resulting in 11,300 cubic feet of excess air being drawn into the building every minute. Over-ventilation is a common issue in large multifamily buildings and frequently leads to higher energy use because excess outside air is heated or cooled as it's drawn into the building.

Energy experts also discovered that existing exhaust fans were inadequate. Lint and other particulates had built up in the ducts and exhaust fan blades, straining the fan motors, reducing airflow and creating a safety hazard for tenants.



Upgrading to energy-efficient variable-speed exhaust fans with pressure sensors and speed controls will reduce utility bills an estimated \$45,827. Plus, Energy Trust gave \$62,225 in cash incentives to help offset the energyefficient upgrade expenditure.



Jeremy Scheetz, community manager Multi-Services, Inc.





To address the air particulate matter and reduce build-up in ducts, Multi-Services, Inc., selected replacement bath and dryer exhaust fans. They also added new pressure controls to the dryer shafts to monitor when a dryer turns on, increasing fan speed when necessary. The new rooftop exhaust fans are variable-speed, energy-efficient models equipped with speed and constant pressure controls, helping to reduce energy costs and increase tenant safety.

As a result of the technical analysis provided by Energy Trust, Multi-Services, Inc., decided to upgrade the exhaust fans at the 139-unit building and rebalance the existing ductwork to maintain the appropriate air changing rate and boost energy efficiency. "They had recommendations to help us out with everything we needed," said Jeremy Scheetz, community manager, Multi-Services, Inc.

### **PROJECT BENEFITS**

- Improved tenant safety
- Decreased operating costs
- Stabilized homeowner association dues for tenant;
- Properly regulated exhaust airflow



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