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## **J.M. Electrical Co. completes services for Castle Square Apartments upgrade**

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J.M. Electrical Company, Inc. have completed construction and project operations at the Castle Sq. Apartments located in the South End. In an effort to reduce energy demand and consumption, Castle Square Apartments created an energy conservation plan to upgrade all apartment units and facility HVAC systems with energy efficient technology in order to realize cost savings with better energy practices and system modifications. The Deep Energy Retrofit (DER) was fully completed by the summer of 2012; the energy efficient enhancements are estimated to save Castle Sq. over 50% annually in gas and electricity costs. "Once the complex decided to move ahead with an energy conservation and enhancement plan, it was important for Castle Sq. Tenants Organization to partner with experienced and reliable specialists to undergo the Deep Energy Retrofit," said Deborah Backus, executive director, Castle Sq. Tenants Organization. "The professionals at J.M. Electrical made the ideal project partners; they were consistent, competent, knowledgeable professionals." J.M. Electrical upgraded the seven-story, low- and moderate-income housing complex with several heating and cooling control systems, as well as upgraded the facilities' antiquated boiler system with energy saving technology. The experts at J.M. Electrical installed automated boiler room controls, direct digital controls in four mechanical rooms, as well as installed fresh air control systems with energy efficient technology to ensure occupants receive fresh air throughout the day. J.M. also installed a Solar Thermal Hot Water Boiler System, one of only two in the country, which uses solar energy to generate and store hot water. "We commend the Castle Sq. Apartments for its cooperation and leadership in embracing an energy efficient solution for these apartments," said Adam Palmer, project manager at J.M. Electrical. "Not only are these projects expected to result in significant energy cost savings for the Castle Square residents, but it will also provide an excellent road map to achieving carbon and energy reductions in existing buildings." Occupying an entire city block, Castle Sq. Apartments was built as a 1960s-era affordable multifamily housing complex. Castle Sq. Apartments will undergo a Deep Energy Retrofit (DER), which is defined as a renovation that saves up to 50% of energy costs. Castle Sq.'s DER helped cut energy spending by 72% for its residents through the sophisticated integration of various control systems. Once the renovation is completed it is expected to achieve U.S. Green Building Council's LEED Gold Certification. As a product of urban renewal, it will be the nation's largest DER once completed. J.M. Electrical has a successful track record of working with private and public organizations to increase their energy efficiency throughout the Greater Boston region. Specializing in the installation of advanced automated building systems for over 25 years, J.M. Electrical has the experience and expertise to integrate cutting-edge technologies into a cohesive energy efficiency management system. While advanced building systems have been the cornerstone of the J.M. Electrical business, renewable energies are starting to take a leading role in addition to

instrumentation, retrofit/performance contracting, and renewable energies.

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