

The PJM Pipeline

PJM Mechanical Contractors
Publication

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Teaming Up with GREEN Technology

PJM is always eager to do our part to help customers reduce energy usage and minimize their impact on the environment, so we were honored to have taken part in a groundbreaking project at a nearby Ivy League university. As part of the university's ambitious goal to reduce carbon dioxide emissions to 1990 levels by the year 2020, PJM was contracted to install a direct-contact heat recovery system manufactured by Sofame Technologies.

Sofame's Percotherm™ Condensing Stack Economizer system recovers residual heat contained in boiler flue gases and transfers the heat to a cold-water stream. The university uses the waste energy recaptured from boilers in their combined heat and power (CHP) plant to preheat incoming city water and reheat condensate returning from the campus. The new Percotherm system is expected to recover approximately 300,000 lbs. of flue gases every hour, reducing CO² production by about 5,000 tons per year and considerably lowering the university's energy costs. University officials estimate that their state-of-the-art CHP plant currently produces savings of \$3 million to \$5 million per year, proof that they are well on their way to achieving their 2020 goal.

To further our commitment to green technology, PJM was recently approved as a Trade Ally with NJ's Clean Energy Program. Trade Allies are contractors approved to perform energy efficiency and renewable engineering, design, installation and maintenance services for commercial, industrial, and institutional facilities as part of the NJ SmartStart Buildings Program. For more information on the program, visit <http://www.njcleanenergy.com/commercial-industrial>

Heating - Cooling - HVAC
Plumbing - Refrigeration
Fire Protection - Building Controls
24 Hour Emergency Service

Featured Project



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OSHA: The History of Safety

By: Rich Hart, Safety Manager



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On December 29, 1970, President Nixon signed the Occupational Safety and Health Act into law, and OSHA was created. OSHA's mission is to prevent work-related injuries, illnesses, and fatalities through enforcement of their standards for workplace safety and health.

At first, OSHA standards were viewed as burdensome and regulators were met with considerable resistance. But with time, OSHA has greatly improved, and today most businesses are readily compliant. In the 39 years since OSHA was established, vast improvements have been made in workplace safety. While U.S. employment has doubled from 56 million workers to 115 million workers since 1971, workplace fatalities have been reduced by 62%, and occupational injuries and illnesses have dropped 40%.

At PJM Mechanical, workplace safety is our number one priority and we are 100% compliant with OSHA standards at all times. PJM is celebrating five plus years without a lost time incident.

Service Photo Album



Cooling towers are the work horses that keep condenser water cool, clean, and flowing properly. Cooling towers need plenty of maintenance to ensure efficient operation throughout the cooling season. When installing and replacing cooling towers, maintenance must be kept in mind. Making it easy to check proper water make up, sump cleaning, water filtration and air flow is very important. If you make it easy to maintain, you will extend the life of the equipment.

Between a Rock and a Hardhat



Really?? We must have missed the memo of the new and improved safety welding equipment.

Apparently cardboard and sunglasses are the latest rage, as this is not the first time we have seen this equipment being used by other companies out there...scary!



Mechanical rooms need to be planned out with plenty of room for maintenance, tube cleaning and ample aiseways for equipment and material deliveries. In the photo above, labeling and valve tagging are underway. The coordination process provides a client with plenty of clear, clean space for maintenance and many years of reliable service.

Industry News: Saving Money / Budgets

By: Patrick Mosner, President

At PJM, we receive all of the trade magazines that discuss the latest products. While I know that new technology is very important to our industry, and everyone wants the best equipment their money can buy, one thing is always more important to customers: saving money in the long run. Despite publications always touting the “latest and greatest”, there is no one product or technology that can do this. More important is confidence in a knowledgeable contractor like PJM. Every customer is different, with different needs and concerns. If you need new energy efficient equipment, PJM may be able to help you offset the costs with financial incentives through the NJ Clean Energy Program. And if you are looking to keep your HVAC, controls or plumbing systems going, we can suggest simple repairs and fixes that will keep things running. Aged equipment can sometimes be costly to fix, and PJM can provide creative suggestions to help solve the issues that concern you. Give PJM a call to find out how we can help you save money. I am always available.

Refrigeration



Did you know that refrigeration was named the greatest invention of the 20th century? It was the one invention with the single greatest impact on people’s lives. Refrigeration allowed us to keep food cool or frozen for freshness and longevity, and allowed people to move to different locations in warmer climates. The industrial benefits, from storing medicines to forming plastics, are endless.



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Service Photo Album



Here in this photo is a pair of custom air handling units serving new clean room flex suite areas. The units have HEPA filtration and clean steam humidification. The areas they serve are pressure controlled and maintain temperature and humidity within tight parameters. In mission critical installations, looking good is expected, but optimal performance is essential.



The futuristic maze pictured in this photo is actually the supply, return and exhaust ductwork for the packaging area in a pharma installation. This is the interstitial space, or catwalks, above the work area. The ductwork must all be pressure tested and witnessed, insulated, and labeled accordingly.

