

From the GM



Experts around the world are researching technologies to help reduce the use of fuel oil and gasoline in our everyday lives. NRG is at the forefront of reshaping energy generation methods and energy conservation efforts.

NRG's Harrisburg Energy Center has installed equipment to reduce electricity and fuel consumption, and is researching the use of alternative fuels for our steam heating operation. Nationally, NRG is focusing on solar, wind, nuclear energy and electric vehicle opportunities. These national initiatives help encourage creative thinking about energy conservation at the local level.

Most customers in downtown Harrisburg view NRG as a steam supplier to commercial and residential buildings in the

area. Actually, NRG has three distinct but interrelated energy production facilities in the community, operated by skilled and experienced staff who each have, on average, more than 20 years' experience operating three plants and their related equipment.

With its tall stacks and noontime steam whistle, NRG's Bruce Mangione Steam Plant operates as NRG Energy Center Harrisburg LLC and is familiar to most downtown residents and employees. This business, in operation since 1887, supplies about 200 customers with 400 million pounds of steam per year. In recent years, NRG has invested more than \$4 million in improvements to modernize the plant's equipment and digital control systems to increase efficiency and reduce costs to our customers.

A second business, operating as NRG Harrisburg Cooling LLC, provides 39° water from a chilled-water plant to the Harrisburg Hospital, the Dauphin County Court House and county administration buildings—primarily for air-conditioning.

Last year, NRG invested \$1.5 million in new chiller plant equipment to reduce electricity consumption by as much as 50 percent, depending upon load, and will pass the savings directly to customers.

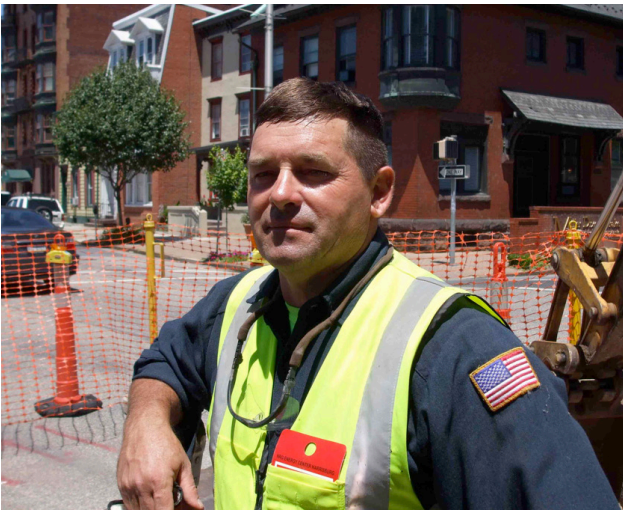
The third business, NRG Energy Center Paxton LLC, is a 12 megawatt (MW) co-generation plant providing electricity to the distribution grid and heat to downtown Harrisburg. This plant is capable of supporting more than 2,000 Harrisburg homes.

NRG Energy Center Harrisburg is identifying opportunities to provide large energy consumers in Dauphin County with heating, cooling and electricity, relieving them of this costly, labor-intensive task and freeing up capital for more strategic use.

Please contact NRG for a no-obligation assessment of your energy needs and recommended solutions.

Jan Sockel
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Takin' it to the Streets



Tim Kauffman, who has been with the company for 26 years, works as lead mechanic on the distribution crew that performs year-round work on the piping system, focusing on major projects during the summer months.

When the warm weather set in, so does the steam system repair season. Annual maintenance begins once the need for steam declines each spring and NRG is able to shut down steam service to parts of our system. This year, 20-inch expansion joints on our high-pressure steam line are being replaced, and a manhole on Walnut Street is being rebuilt. The work will likely be completed by the end of July.

Tim Kauffman, lead mechanic – distribution, heads up a crew of four distribution employees who get the job

done. "We do most of our own distribution work," says Tim. "We rarely have to contract out because we have extensive experience with every phase of the job. We work on pipes, expansion joints and manholes and often do our own welding. We even lay our own blacktop and pour our own concrete. Whatever it is, we take pride in what we do. I work with a super group of people, and we are dedicated to doing it right.

"Replacing just one manhole, like they're doing on Walnut Street, is no small task. It involves cutting the street to remove the top of the manhole, peeling off the inside concrete walls, pouring concrete to make new inside walls, installing new valves and regulators and restoring the top of the manhole up to the street level," he explains.

"There are seven miles of steam lines in our distribution system," adds Tim, "and we know every inch of it. Before putting new piping into operation, we conduct ultrasonic testing on the welds to make

absolute sure they are installed to specifications. In everything we do, safety and reliability are at the top of our minds."

150 and Going Strong



Harrisburg officially celebrated its 150th birthday in March and is marking

this "SusqueCentennial" with several celebrations and banners throughout the year. On Founders' Day weekend, June 19-20, the city honored participants in the Highmark Blue Shield Living Legacy™ Series, an oral history project recording the memories of 150 Harrisburg-area residents.

Tracing its roots back to a local steam business founded in 1887, NRG Energy Center Harrisburg is woven into the fabric of the Harrisburg community. NRG encourages you to participate in SusqueCentennial events and learn more about our city's history. For more on the anniversary, visit <http://tinyurl.com/Harrisburg150>.

Condensate Return: A Capital Idea



Pennsylvania's State Capitol is included in the new energy-savings condensate return system NRG is installing in the Capitol Complex.

NRG supplies steam to many Commonwealth of Pennsylvania buildings. The used steam, known as condensate, previously was not returned to NRG for reuse; however, this has begun to change. Many of the Commonwealth's buildings using steam are starting to pipe condensate back to the Commonwealth's central chiller plant to be used as make-up water for cooling towers.

The rest goes back to NRG's Mangione Steam Plant for reheating and reuse—an environmentally responsible and energy-efficient move.

Since the condensate is still warm, it requires less fuel to heat up again before sending it back to customers. Additionally, having already been treated, the condensate requires fewer

chemicals when reused. That means greater system efficiency and lower water treatment costs, both of which benefit customers.

NRG's \$1.8 million project includes modifications to the steam plant, a new pipeline from the Commonwealth's chiller plant to the steam plant, installation of a 5,000-gallon tank at the Commonwealth's chiller plant and modifications

within state buildings to allow the condensate to flow back to the chiller plant.

"This is a great project," says NRG's Bard Rupp, plant engineer and project manager, "and even better because it's expandable. We sized the condensate return piping large enough so that if other buildings in the area want to be a part of it, we can likely make that happen."

No Need for Heat?

Mother Nature has been serving up her own heat over the past few months, so there hasn't been much need for steam from NRG. If your steam valve hasn't already been closed for the season, please call or email Lori Pritchett, 717.234.4600, lori.pritchett@nrgenergy.com.

Lending a Helping Hand



Late last year, NRG employees helped clean up the Harrisburg Cemetery after a storm in November knocked down trees and damaged headstones. NRG used its backhoe to pick up fallen trees and limbs and move them out of the area.

No matter the time of year, NRG Energy Center Harrisburg wants to lend a helping hand to the communities it serves. Among our local projects is planting trees. Last year the Company planted 10 trees in the "Green Belt," and so far this year we have planted three trees near our Harrisburg offices. Plans are underway to plant seven more trees in the city this year.

This summer NRG will clean up Paxton Creek and remove debris such as discarded tires to help restore the waterway to its natural state.

"We try to do four or five projects each year," says Plant Manager and econrg coordinator Dan Quinn. "NRG believes it's important to give back to the community and we put that into action."

Dan also coordinates magazine recycling with company employees and drops off used publications at the Ronald McDonald House® for enjoyment by families of seriously ill children undergoing medical treatment. Dan also serves on several United Way committees including Day of Caring and Youth Day of Caring. This year he supervised 15 teens who cleaned up and painted over graffiti on Allison Hill, part of a group of 300 students dedicated to making Harrisburg an even better place to live and work.

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