

# Energy Center News

**2** Maricopa County Sheriff's  
Office  
An NRG Energy Center  
Phoenix customer

April 2016 Volume 6 | Issue 1



Maricopa County has entrusted NRG Energy Center Phoenix with cooling the new 132,000-square-foot Maricopa County Sheriff's Office (MCSO) headquarters and 911 Center. [Courtesy Maricopa County.](#)

**3** **Phoenix's Sustainability Leader**  
On the way to cost and energy savings

**3** **Solar-Charged Mobiles**  
NRG Street Charge® solar charging stations, a business opportunity

**“ Mission critical facilities** such as the MCSO 911 Center demand reliability for their cooling needs and the County’s partnership with NRG Energy Center Phoenix has delivered that reliability. The County’s reliance upon the Energy Center for meeting that need and our other downtown cooling needs has been a resounding success, and we look forward to exploring opportunities for expanding the model. **”**

– Clint Hickman, Chairman of the Maricopa County Board of Supervisors

# Tapped to Support Vital Services

## District cooling saving money and energy for Maricopa County

**W**hen the new Maricopa County Sheriff’s Office opened in March 2014, its striking architecture changed the face of downtown Phoenix. It holds a LEED™ Silver Certification and is the latest of six Maricopa County buildings to tap district cooling service from NRG Energy Center Phoenix.

project’s capital costs because it avoided having to purchase on-site chillers. It’s also held electricity costs in check since the MCSO doesn’t run chillers that often comprise most of a building’s electricity use. In addition, MCSO saves on water consumption since the energy center provides and recirculates the chilled water.

Located at Sixth Avenue and Jefferson Street, the 132,000-square-foot facility streamlined MCSO’s operations by consolidating administrative functions and bringing together more than 3,400 employees and officers previously housed in five separate buildings. The new five-story structure serves as MCSO headquarters and the 911 Center that provides emergency dispatch to a 9,226-square-mile area. It also incorporates a data center and an upgraded records management system.

**“ Over the past 15 years we’ve helped the County come up with cooling solutions for both their older and newer buildings. ”**

“We’ve been working with the County since we started operating the chilled-water system at Chase Field in 2001,” says Jim Lodge, Vice President and General Manager of NRG Energy Center Phoenix. “Over the past 15 years we’ve helped them come up with cooling solutions for both their older and newer buildings. Some of the older buildings needed new chillers or cooling towers, but there wasn’t a cost-effective way to install that equipment. Our district cooling became the answer since the County could connect to our chilled-water pipes without worrying about equipment removal or replacement.”

Gabor Lorant Architects Inc. was the building’s architect of record, designing an energy-efficient, functional building featuring metal roof and wall panels. Its design won the 2014 Arizona Forward Environmental Award of Merit in the civic buildings and structures category.

NRG Energy Center Phoenix is pleased to have provided 15 years of reliable district cooling service to Maricopa County, which depends on us to support its vital services. We look forward to continuing to work together to save valuable resources. ■

By using the Energy Center’s chilled water—just as five other County buildings do—the County kept down the

### Connected: More than 4.3 million square feet of County-owned properties use district cooling

Building	Year Connected	Square Feet
Chase Field	2001	1.3 million square feet
Maricopa County Security Center Building	2001	238,000 square feet
Maricopa County Jail	2003	400,000 square feet
Maricopa County West Court Complex	2003	1.6 million square feet
Maricopa County South Court Tower	2010	695,000 square feet
Maricopa County Sheriff’s Office	2013	132,000 square feet



Help shape the long-term vision of the City of Phoenix by commenting on its newly proposed 2050 environmental sustainability goals. Text **"PHX2050"** to **313131** to get a link to the survey or go to [www.research.net/r/PHX2050](http://www.research.net/r/PHX2050).

Mark Hartman, LEED AP, Chief Sustainability Officer, City of Phoenix. Photo: Courtesy Mark Hartman

# Heightened Focus on Sustainability

## Hartman leading the way

**P**hoenix's landscape and weather may contrast with Vancouver, British Columbia's, but when it comes to energy and the environment, one thing is definitely the same: Sustainability matters. That's what drew Canadian-born Mark Hartman from Vancouver to Phoenix to serve as the City's first Chief Sustainability Officer.

Hartman led Vancouver's Sustainable Development Program for eight years and helped develop the City's "Greenest City Action Plan." Eager to put his experience to work in a new locale, Hartman and his family headed to Phoenix in 2014, and he was pleased with what he found.

"There were many projects underway when I arrived," says Hartman. "But I was most struck by the fact that 60% of the City's municipal fleet uses alternative fuel and 70% of its transit fleet does the same. In fact, together they use more alternative fuel than all of southern California even though Phoenix's population is smaller. That says a lot about what can be accomplished. Fuel is costing us less as a result."

One of Hartman's first efforts in Phoenix was advocating to replace existing street lights with LED fixtures, a move unanimously approved by the City Council and now saving \$1 million per year. But there's more to come.

"We're working on setting 2050 goals," says Hartman. "If you don't decide where you want to be, you can't measure if you're getting there. Most immediately we feel we can make progress by diverting waste. There's also great potential in building energy efficiency. We're looking for businesses willing to participate in an advisory group to see how we can help them become more sustainable. There are cost savings to be had, and I know we can make that happen."

Learn more about the advisory group and the City's other sustainability efforts by contacting Mark Hartman at 602.256.4287, [mark.hartman@phoenix.gov](mailto:mark.hartman@phoenix.gov). We're glad to have you in Phoenix, Mark! ■

## Charging on the Go

### Solar energy leads the way

Up and running in 18 cities worldwide, NRG Street Charge® solar charging stations give people power everywhere. The charging stations harness the sun's power to keep users of mobile phones and other handheld electronic devices fully charged and engaged, increasing stay time and providing branding opportunities for businesses that host them.

Street Charge stations can be installed permanently or temporarily, with phones charging as fast as if they were plugged into the wall. Each station features three 20-watt solar panels for primary power, a 168-watt-hour lithium battery storage for night use, and built-in weather and tamper-resistant cords for charging up to six phones simultaneously.

Interested in a station for your site? **Contact Jay Zaghloul at [Jay.Zaghloul@nrg.com](mailto:Jay.Zaghloul@nrg.com), 602.524.4051, or visit [nrgstreetcharge.com/](http://nrgstreetcharge.com/).** ■



NRG Street Charge® solar charging station



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# From the General Manager

## District cooling system growth continues

**N**RG Energy's district cooling system in Phoenix has steadily grown through the years and now serves a host of County-owned properties, as featured in our cover story. We continue to invest in and expand the chilled-water system to further improve reliability and operation.

In fact, we plan to interconnect ends of the "West Loop" by extending our distribution pipe three blocks, from 1st Street and Jackson Street to 1st Avenue and Madison Street. The work could start as early as fall 2016 with completion planned for spring 2017. This major project will further enhance the system's operational flexibility,

capacity, resiliency and reliability.

The Phoenix district cooling system reflects the overall growth and innovation we're seeing companywide that's aimed at achieving NRG's overall sustainability goals set in 2014: grow our business while reducing carbon dioxide (CO<sub>2</sub>) 50% by 2030 and 90% by 2050.

From solar energy to district cooling and beyond, NRG is committed to a clean-energy future. There are many energy-saving and environmentally responsible opportunities. We're pleased to be a part of the possibilities that lie ahead for the Phoenix community. ■

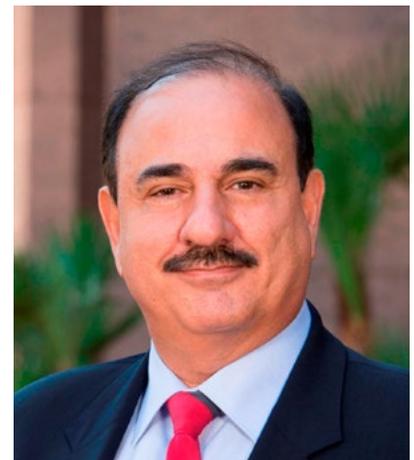


**Jim Lodge**, Vice President and General Manager  
James.Lodge@nrg.com  
Photo: Tevis Photographic

# Happy Anniversary, Jay!

**I**nterested in district cooling service? Have a service question? Contact Jay Zaghoul at Jay.Zaghoul@nrg.com, 602.524.4051. Jay became NRG Energy Center Phoenix's Director of Business Development and Customer Service in February 2015 and holds a similar role with NRG Energy Center

San Diego. "It's a pleasure to be back with NRG's downtown Phoenix district cooling system," says Jay. "I was involved with the system's startup, and I feel a real connection here." Jay joined the Energy Center after working at Arizona Public Service Company, and is a registered Professional Engineer and Certified Energy Manager. ■



**Jay Zaghoul**, PE, CEM