



1-800-342-6335

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CUSTOMER SPOTLIGHT

Tivoli Village - Las Vegas

Tivoli Village, an upscale shopping and dining destination in Las Vegas, recently completed a NV Energy Sure Bet retrofit project converting their former HID and CFL lamps to new LED bulbs in their parking garage, parking lot, building facade and bridge walkway.

We sat down with Guy Savarese, Operations Manager, to talk about why he decided to apply for the NV Energy Sure Bet program.



*Guy Savarese, Tivoli Village
Operations Manager*

What made you decide to participate in the NV Energy Sure Bet program?

The NV Energy Sure Bet program is another way to bring our utility bills down and generate revenue towards future endeavors.

We spent \$33,800 to install LED lights throughout our property and received a \$15,000 rebate check from the Sure Bet program. We're so excited about the Sure Bet program that we plan on applying for more incentives in 2016.

What do you like most about the NV Energy Sure Bet program?

The monthly Education and Training events make it so easy to meet people from across the valley. It's a great forum to learn new concepts and mingle with other facility managers. If people attended the education and training events, there's no excuse for them not to participate.

Would you recommend the NV Energy Sure Bet program to other companies?

Absolutely! It's a no-brainer. It's the easiest way to get money back into your property.

Tell us about Tivoli Village and why you decided to apply for NV Energy Sure Bet incentives:

Tivoli Village is a unique mix of luxury brand retailers, one-of-a-kind boutiques and great restaurants. We are currently developing a second phase to our existing offerings that will add more than 270,000 feet of retail, restaurant, entertainment, and office space with the anchor tenant being luxury lifestyle purveyor, Restoration Hardware.

Tivoli Village is committed to going green in all aspects of our business from using all organic pesticides to growing organic fruits and herbs all over the property that our restaurants use daily. We want to go the extra mile in becoming a truly sustainable facility and participating in the NV Energy Sure Bet program is an important part of that.



Tivoli Village, Las Vegas

FREE ENERGY ASSESSMENT

NV Energy Sure Bet Operations Manager, Mark Darden, answers your FAQs

Q: What is a free energy assessment walk-through?

A: An energy assessment walk-through is performed by an authorized NV Energy Sure Bet Auditor to help customers identify no cost and low cost energy saving opportunities to reduce energy consumption and lower operating cost.

Q: How long does it take?

A: The time required to complete the energy assessment walk-through depends on the complexity and size of the facility. The Auditor will spend adequate time with customers to answer questions and discuss next the steps.

Q: How do I know if I qualify?

A: If you are an active NV Energy commercial customer you are qualified to request a free energy assessment walk-through.

Q: What happens after my energy assessment walk-through?

A: Within one week, the auditor will email you a brief assessment report with energy saving recommendations and detailed next steps.

Q: How do I schedule an energy assessment walk-through?

A: Contact the NV Energy Sure Bet team at 1-800-342-6335 or email us at surebet@nvenergy.com



NV Energy Sure Bet Auditor, Bruce Deetken, performs a free energy assessment

Call 1-800-342-6335 to schedule your free assessment walk-through today.



REMAINING PROGRAM FUNDS

Remaining NV Energy Sure Bet Funds for 2015

Available program funds are listed on [our website](#) and updated monthly.

Remaining Funds - Northern Region

Commercial & Industrial: 60% remaining
Nonprofit Agency: 60% remaining
Natural Gas: 90% remaining

Remaining Funds - Southern Region

Commercial & Industrial: 40% remaining
Nonprofit Agency: 25% remaining

EMERGING TECHNOLOGIES - ALL ABOUT DEMAND FLOW

Author: Robert Pahor, PE, Senior Engineer

A facility's cooling energy can typically represent 20%-30% of that facility's utility spending, making the chilled water plant a significant component of total building energy use, and an excellent opportunity for energy efficiency measures. Traditional chilled water plants are designed to operate most efficiently at the peak load conditions of the summer months, at a relatively constant delta-T (the difference between return and supply chilled water temperatures). During the remaining seasons the demand is often at part load conditions, so the chilled water delta-T often falls short of design levels. The result is commonly termed "Low Delta T Syndrome", which usually requires additional chillers (and associated pumping systems) to be brought on-line to maintain flow requirements, even though none of the chillers are fully-loaded. Both chiller and pump energy increase accordingly.

New control methodologies commonly termed "Central Plant Optimization" can be employed to help avoid Low Delta T Syndrome, and increase a cooling plant's overall energy efficiency. Instead of operating the various components (chiller, tower and chilled water distribution pump) as independent components, optimized plant's components are operated together as a single system. Chilled water and condenser water temperatures are not controlled directly in this higher-performance operating concept. Instead, individual components are operated such that their performance is "optimized" with respect to all other components, and the requirements of the current cooling load condition. Examples of optimized plants have seen reductions in annual plant cooling energy of 25% or more, versus their operation as a more traditionally-designed chiller plant.

Central Plant Optimization energy efficiency methodologies/objectives may include:

- Improving the effects of chiller low Delta-T in the winter and shoulder months through the use of control algorithms that optimize and maintain chilled water and condenser water temperature set points.
- Making the coldest chilled water possible in the chillers that are running.
- Varying condenser water flow and temperature to allow the chillers to operate in their lowest kW/ton range (e.g. highest efficiency).
- Controlling pump speeds and cooling tower fans to optimize the energy expended at the given

tonnage load.

- In climates that can make use of free-cooling with a Waterside Economizer System, reducing the total chilled water flow rate to within the rated flow capacity of the Heat Exchangers when free-cooling is available (so Chillers/Pumps do not have to run).

Cooling plant optimization strategies typically require that all pumps (chilled water and condenser), and all cooling tower fans be converted to variable flow by retrofitting them with variable frequency drives (VFD's). Instrumentation upgrades that typically accompany an optimization project include electrical energy metering on plant machinery; additional and/or up-graded temperature sensors, differential pressure transducers, and flow meters; control valve upgrades.



ONLINE APPLICATION

Coming Soon!

You asked, we listened! We're working hard to bring the NV Energy Sure Bet application online.

In the meantime, you can still [download the paper application](#).

JULY EDUCATION EVENTS

Lighting 101 - Las Vegas

Date: Tuesday, July 21, 2015

Time: 11:30 a.m. - 1:00 p.m.

Location: Springs Preserve
333 South Valley View Blvd., Las Vegas, NV 89107

[Register Here](#)

Lighting 101 - Reno

Date: Wednesday, July 22, 2015

Time: 11:30 a.m. - 1:00 p.m.

Location: NV Energy Headquarters Building
6100 Neil Road, Reno, NV 89511

[Register Here](#)



Mark Darden with the NV Energy Sure Bet program leads a recent seminar

AUGUST EDUCATION EVENTS

Online Application - Las Vegas

Date: Tuesday, August 18, 2015

Time: 11:30 a.m. - 1:00 p.m.

Location: NV Energy Pearson Building
6226 West Sahara Avenue, Las Vegas, NV 89146

[Register Here](#)

NV Energy Sure Bet Summit - Reno

Date: Wednesday, August 19, 2015

Time: 11:00 a.m. - 2:00 p.m.



Location: NV Energy Headquarters Building
6100 Neil Road, Reno, NV 89511

[Register Here](#)

CONTACT THE NV ENERGY SURE BET TEAM TODAY



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