



April 2022

# THE LONG ISLAND SOUNDER



ASHRAE Long Island Chapter, Region I...Founded in 1957

[www.ashraeli.com](http://www.ashraeli.com)

American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc.

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## President's Message

Hello everyone and welcome to ASHRAE LI April meeting.

We are maintaining the **IN-PERSON** meetings at our usual spot, the Westbury Manor.

Thank you to all who attended our YEA/membership social event at RPM Raceway. It was a great time and I hope everyone had fun racing the karts and socializing at The Main Event after! Keep an eye out for more social events and the field trip coming up in the next few months. Our golf outing is coming up at the beginning of next month - thank you to everyone who has purchased tickets, as it is sold out already!

We are in the middle of our Membership Battle! See details below in our membership promotion segment and help the chapter by promoting membership in your company. Membership has been struggling the last few years in ASHRAE as a whole - although our chapter has been doing well despite the last few years difficulties. Please keep your membership up to date and remind your peers to do the same.



ASHRAE LI has started an Instagram account, @ASHRAE\_LI! Please follow us on all social media platforms (Facebook, Instagram, and LinkedIn) as well as the website, [www.ashraeli.com](http://www.ashraeli.com), for the most up to date information on monthly presentations, upcoming events, etc.

If anyone is interested in joining a committee, please reach out to anyone on the board of governors. We are always looking for volunteers!

Regards,

**Matthew Vitrano**  
President - Long Island Chapter

## CHAPTER MONTHLY MEETING

DATE:	Tuesday, April 12, 2022
TIME:	6:00 PM - Cocktails/Dinner 7:00 PM - Dinner Presentation 8:45 PM - Conclusion
LOCATION:	Westbury Manor 1100 Jericho Tpke. Westbury, NY 11590
FEES:	
Members -	\$50.00
Guest -	\$60.00
Student -	\$15.00

Check the ASHRAE Website for Society news and to join/renew membership!  
<http://www.ashraeli.com>

## Long Island Chapter Officers & Committees

### ASHRAE 2020/2021 OFFICERS

POSITION	NAME	PHONE	EMAIL
President	Matthew Vitrano	516.319.9325	<a href="mailto:c006@ashrae.net">c006@ashrae.net</a>
President-Elect	Murat Bayramoglu	631.312.8818	<a href="mailto:c006pe@ashrae.net">c006pe@ashrae.net</a>
Vice President	Michael Nigro	212.643.9055	<a href="mailto:c006vp@ashrae.net">c006vp@ashrae.net</a>
Treasurer	Elizabeth Jedrlnic	516.490.1621	<a href="mailto:c006tr@ashrae.net">c006tr@ashrae.net</a>
Secretary	Matthew Catan	407.489.6684	<a href="mailto:c006sec@ashrae.net">c006sec@ashrae.net</a>
Board of Governors	Michael Razzano	516.805.3084	<a href="mailto:c006bog1@ashrae.net">c006bog1@ashrae.net</a>
Board of Governors	Zhigang Xu		<a href="mailto:c006bog2@ashrae.net">c006bog2@ashrae.net</a>
Board of Governors	Rich Smith		<a href="mailto:c006bog3@ashrae.net">c006bog3@ashrae.net</a>
Board of Governors	Michael S. Gerazounis	212.643.9055	<a href="mailto:c006bog4@ashrae.net">c006bog4@ashrae.net</a>
Board of Governors	James Hanna	718.269.3768	<a href="mailto:c006bog5@ashrae.net">c006bog5@ashrae.net</a>

### ASHRAE 2020/2021 COMMITTEES

COMMITTEE	NAME	PHONE	EMAIL
Programs & Special Events	Murat Bayramoglu	631.312.8818	<a href="mailto:c006pe@ashrae.net">c006pe@ashrae.net</a>
Membership (MP)	Michael Razzano	516.805.3084	<a href="mailto:c006mep@ashrae.net">c006mep@ashrae.net</a>
Refrigeration	Andrew Dubel		<a href="mailto:c006ref@ashrae.net">c006ref@ashrae.net</a>
Chapter Technology Transfer (CTTC)	Murat Bayramoglu	631.312.8818	<a href="mailto:c006cttc@ashrae.net">c006cttc@ashrae.net</a>
Grassroots Government Activities (GGAC)	James Hanna	718.269.3768	<a href="mailto:c006ggac@ashrae.net">c006ggac@ashrae.net</a>
Newsletter Editor	Liset Cordero	212.643.9055	<a href="mailto:c006ne@ashrae.net">c006ne@ashrae.net</a>
Research Promotion (RP)	Michael Nigro	212.643.9055	<a href="mailto:c006rp@ashrae.net">c006rp@ashrae.net</a>
Historian	Elizabeth Jedrlnic	516.490.1621	<a href="mailto:c006his@ashrae.net">c006his@ashrae.net</a>
Student Activities (SA)	Matthew Catan	407.489.6684	<a href="mailto:c006sa@ashrae.net">c006sa@ashrae.net</a>
Young Engineers in ASHRAE (YEA)	Michael S. Gerazounis	212.643.9055	<a href="mailto:c006yea@ashrae.net">c006yea@ashrae.net</a>
Webmaster	Frank Paradiso	631.632.2792	<a href="mailto:c006web@ashrae.net">c006web@ashrae.net</a>
Nominating	Michael Gerazounis, PE, LEED AP	212.643.9055	<a href="mailto:nominating@ashraeli.org">nominating@ashraeli.org</a>
Reception & Attendance	Zhigang Xu / Matt Catan / Michael S. Gerazounis		<a href="mailto:reception@ashraeli.org">reception@ashraeli.org</a>
PR & Engineering Joint Council of LI (EJCLI) Liaison	Andrew Manos, LEED AP	631.632.2792	<a href="mailto:pr@ashraeli.org">pr@ashraeli.org</a>
Golf Outing	Peter Gerazounis, PE LEED AP	212.643.9055	<a href="mailto:golf@ashraeli.org">golf@ashraeli.org</a>
Awards	Brian Simkins	203.261.8100	<a href="mailto:c006ha@ashrae.net">c006ha@ashrae.net</a>
ASHRAE LI, P.O. Box 79, Commack, NY 11725			

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## Chapter Monthly Meeting - Program for 2021/2022

<b>September 14, 2021</b> * At Westbury Manor ✓ Dinner Presentation – Fan Fundamentals Presenter: Andy Siegelson <b>Refrigeration Night</b> <b>**1 PDH**</b>	<b>March 8, 2022</b> * At Westbury Manor ✓ Dinner Presentation— HVAC Noise Control Presenter: Dan LaForgia <b>Student Activities Night</b> <b>YEA Night</b> <b>**1 PDH**</b>
<b>October 12, 2021</b> * At Westbury Manor ✓ Dinner Presentation — PPRCT Pipe and Fitting Systems for HVAC Water Distribution and Compressed Air Distribution Presenter: Jordan Stern <b>**1 PDH**</b>	<b>April 12, 2022</b> Dinner Presentation— Load Shifting using Commercial Heat Pump Water Heaters in Multi-Family Buildings Presenter: Ryan Green <b>**1 PDH**</b>
<b>November 9, 2021</b> * At Westbury Manor ✓ Dinner Presentation— Critical Environment Air Distribution Applications Presenter: Larry Scholl, CEM, LEED AP BD+C <b>Membership Promotion</b> <b>Student Activities Night and YEA Night</b> <b>Resource Promotion Night</b> <b>**1 PDH**</b>	<b>May 2, 2022</b> * Cherry Valley Club, Garden City, NY <b>ANNUAL GOLF OUTING</b>
<b>December 14, 2021</b> * At Westbury Manor ✓ Dinner Presentation— Eliminating the High Cost of Over Pumping Presenter: Rick Smith <b>**1 PDH**</b>	<b>May 10, 2022</b> <b>Annual Field Trip</b>
<b>January 11, 2022</b> * At Westbury Manor ✓ Dinner Presentation— Duct System Acoustics Presenter: Patrick J. Brooks, MBA, P.E. <b>ASHRAE DISTINGUISHED LECTURER</b> <b>**1 PDH**</b>	<b>June 14, 2022</b> * At Westbury Manor <b>Free Buffet Dinner for Members</b> <b>PAST PRESIDENTS NIGHT &amp; OFFICER INSTALLATION</b> <b>STUDENT SCHOLARSHIPS TO BE AWARDED</b> <b>ASHRAE History Quiz and prize Give-A-Ways</b>
<b>January 29 - February 2, 2022</b> ✓ ASHRAE Winter Conference	<b>June 2022 - TBD (4pm-8pm)</b> * Dixie II @ Captree State Park Boat Basin, NY <b>ANNUAL FISHING TRIP</b>
<b>February 8, 2022</b> * At Westbury Manor ✓ Dinner Presentation— Optimizing IAQ and Energy Efficiency Presenter: Joe Maser <b>Membership Promotion Night</b> <b>Resource Promotion Night</b> <b>**1 PDH**</b>	<b>August 2022</b> <b>CHAPTERS' REGIONAL CONFERENCE (CRC) REGION I GRANIT STATE</b>
<b>February 20-26, 2022</b> ✓ <b>NATIONAL ENGINEERS WEEK</b>	

## Meeting Program



### Dinner Presentation

#### Load Shifting using Commercial Heat Pump Water Heaters in Multi-Family Buildings

*Presented by*

**Ryan Green**  
**Director of Strategic Accounts**  
**Nyle Water Heating**

**Attendees  
 Will Earn  
 1 PDH!**

<b>DATE:</b>	<b>TUESDAY, MARCH 8, 2022</b>		
<b>Time:</b>	6:00 PM - Cocktails and Hors D'oeuvres 7:00 PM - Dinner Presentations 8:45 PM - Conclusion	<b>Fee:</b>	<b>Members - \$50 pp</b> <b>Guests - \$60 pp</b> <b>Students - \$15 pp</b>
<b>Location:</b>	<b>WESTBURY MANOR</b> (516) 333-7117 1100 Jericho Tpke., Westbury, NY 11590 <b>Directions are posted at @ <a href="http://www.ashraeli.org">www.ashraeli.org</a></b>		
<b>Presentation:</b>	<p>This month's presentation will review the following:</p> <p><u>Electrifying DHW: The Emergence of HPWHs in Today's Market</u></p> <ul style="list-style-type: none"> <li>• Electrification &amp; DHW market trends—Focus on NYC Market</li> <li>• Review of Available HPWHs</li> <li>• Single-Pass vs. Multi-Pass</li> <li>• Traditional Refrigerants vs. CO2</li> <li>• HPWH All Electric Building Applications</li> <li>• HPWHs as a utility side demand side management tool</li> </ul> <p><b>All attendees will receive 1 PDH.</b></p>		
<b>About our Speaker:</b>	<p>Ryan has been in the HVAC and energy efficiency industry for over 12 years. Having been mentored early on his career by some of the nation's leading net-zero and geothermal heat exchange experts, all-electric HVAC system and plumbing systems utilizing heat pumps has been central in his development. From net-zero multifamily apartments to geothermal cannabis grow houses to low-carbon district energy systems utilizing wastewater heat recovery, Ryan has been fortunate to have been involved with some of the nation's largest and most influential projects – all with a central theme – heat pumps. Today, he is a Director of Strategic Accounts for one of the nation's leading heat pump water heater manufacturers, Nyle Water Heating and works alongside their representative network to design and implement commercial and residential heat pump water heating systems.</p>		

CHAPTER MAY NOT ACT FOR SOCIETY

An International Organization

**The Long Island Chapter is looking for presenters for the remainder of the year. Please contact us if you are interested in presenting to our membership.**

## Long Island Chapter - Past Presidents

1958	H. Campbell, Jr. PE	1990	Robert Rabell
1959	Clyde Alston, PE	1991	Gerald Berman
1960	Sidney Walzer, PE	1992	Donald Stahl
1961	Sidney Gayle	1993	Ronald Kilcarr
1962	William Kane	1994	Jerald Griliches
1963	Louis Bloom	1995	Walter Stark
1964	Milton Maxwell	1996	Joe Marino
1965	Will Reichenback	1997	Norm Maxwell, PE
1966	Joseph Minton, PE	1998	Alan Goerke, PE
1967	Irwin Miller	1999	Frank Morgigno
1968	Walter Gilroy	2000	Michael Gerazounis, PE, LEED AP
1969	Charles Henry	2001	Ray Schmitt
1970	William Wright	2002	Steven M. Stein, PE
1971	Louis Lenz	2003	Andrew Braum, PE
1972	Ronald Levine	2004	Claudio Darras, P.E.
1973	Henry Schulman	2005	Craig D. Marshall, P.E.
1974	Myron Goldberg	2006	John Nally
1975	John N. Haarhaus	2007	Peter Gerazounis, PE, LEED AP
1976	Richard K. Ennis	2008	Steven Friedman, PE, HFDP, LEED AP
1977	Kenneth A. Graff	2009	Steven Giammona, P.E., LEED AP
1978	Evans Lizardos, PE, LEED AP	2010	Nancy Román
1979	Albert Edelstein	2011	Carolyn Arote
1980	Ralph Butler	2012	Brian Simkins, LEED AP
1981	Robert Rose, PE	2013	Andrew Manos, LEED AP BD+C
1982	Timothy Murphy, PE	2014	Richard L. Rosner, P.E.
1983	Leon Taub, PE	2015	Thomas J. Fields, P.E., LEED AP
1984	Raymond Combs	2016	Donald Kane, P.E.
1985	Edward W. Hoffmann	2017	Andrew Dubel, P.E., LEED AP
1986	Jerome T. Norris, PE	2018	Richard Halley
1987	Abe Rubenstein, PE	2019	Frank Paradiso
1988	Michael O'Rourke	2020	James Hanna
1989	Mel Deimel		

## PAOE POINTS FOR 2021/2022

Chapter Members	Chapter Operations	CTTC	Communi-cations	GGAC	History	Member-ship	Research Promotion	Student Activities	YEA	Chapter PAOE Totals
282	495	1,400	0	0	295	625	1,040	125	1,750	5,730

## Research Promotion

***“If we knew what we’re doing it wouldn’t be called research”  
– Albert Einstein***

I would like to thank the companies who have participated in the annual Product Directory of Manufacturers and their Representatives. The product Directory has been prepared as a service to all its members and as a service to the local HVAC industry. It will be made available to all ASHRAE and non-ASHRAE members at no-cost and can be obtained from our monthly meetings or directly from our website.

This year’s overall research promotion goal is \$2,593,341 with many research projects on board. Our chapter is expected to raise \$20,400 towards the overall goal. I am hoping that I can count on the continued support of all our past contributors who have generously supported us over the years. I also look forward to gaining the support of new contributors this coming year. Last year we were successful in beating our goal by over \$8,000 and am hopeful that this year we can continuously raise the bar.



### Thank you to our contributors:

#### Individual

John D. Nally  
Michael Gerazounis  
Matthew K. Bendix  
Elizabeth Jedrlinic  
Andrew E. Manos  
Matthew Vitrano  
Michael Nigro  
Murat Bayramoglu  
Michael Steven Gerazounis  
Richard W. Smith  
Michael H. Razzano  
James Hanna  
Frank Paradiso  
Matthew Catan  
Donald Kane  
John C. Cronin, Jr

#### Companies

H2M Architects + Engineers  
Robert Half  
Trane  
SRS Enterprises  
Accuspec  
Tower Enterprises  
MV Controls  
Metro Air Products  
ADE Group  
Belimo Aircontrols (USA)  
Miller Proctor Nickolas  
Technical Air Systems  
Mitsubishi  
Klima  
Gil-bar  
Victaulic



### CONTRIBUTIONS CAN BE MADE IN THE FOLLOWING WAYS:

1) You can mail your checks, made out to ASHRAE Research Promotion:

Michael Nigro  
ASHRAE Research Promotion Chair  
PO BOX 79  
Commack, NY 11725

2) You can bring your check to any of the meetings and hand to myself or Elizabeth.

3) You can contribute via PayPal from the ASHRAE LONG ISLAND web site, just click on the donate button.

4) You can contribute directly on-line. [www.ashrae.org](http://www.ashrae.org)

***\* Please make sure you accredit your contribution to the LONG ISLAND CHAPTER 006 \****

Thank you again for all of your support!

**Michael Nigro**  
**Research Promotion Chair**



## History

The ASHRAE annual/winter conferences have been held since 1980. Below is a list of all the places they have been held over the years.

**Elizabeth Jedrlinic**  
History Chair

**Michael Razzano**  
History Co-Chair



### Past Winter and Annual Conferences

Year	Winter	Annual
1980	Los Angeles	Denver
1981	Chicago	Cincinnati
1982	Houston	Toronto
1983	Atlantic City	Washington
1984	Atlanta	Kansas City
1985	Chicago	Honolulu
1986	San Francisco	Portland
1987	New York	Nashville
1988	Dallas	Ottawa
1989	Chicago	Vancouver
1990	Atlanta	St. Louis
1991	New York	Indianapolis
1992	Anaheim	Baltimore
1993	Chicago	Denver
1994	New Orleans	Orlando
1995	Chicago	San Diego
1996	Atlanta	San Antonio
1997	Philadelphia	Boston
1998	San Francisco	Toronto
1999	Chicago	Seattle
2000	Dallas	Minneapolis
2001	Atlanta	Cincinnati
2002	Atlantic City	Honolulu
2003	Chicago	Kansas City
2004	Anaheim	Nashville
2005	Orlando	Denver
2006	Chicago	Quebec City
2007	Dallas	Long Beach
2008	New York	Salt Lake City
2009	Chicago	Louisville
2010	Orlando	Albuquerque
2011	Las Vegas	Montreal
2012	Chicago	San Antonio
2013	Dallas	Denver
2014	New York	Seattle
2015	Chicago	Atlanta
2016	Orlando	St. Louis
2017	Las Vegas	Long Beach
2018	Chicago	Houston
2019	Atlanta	Kansas City
2020	Orlando	Virtual (Austin)
2021	Virtual (Chicago)	Virtual (Phoenix)

# ASHRAE LI - William S. Artis Memorial Student Scholarship Application

## American Society of Heating, Refrigerating & Air Conditioning Engineers Long Island Chapter, Region 001



### WILLIAM S. ARTIS MEMORIAL STUDENT SCHOLARSHIP

The Long Island Chapter awards up to (2) \$1,000.00 or (1) \$1,000.00 and (2) \$500.00 scholarships annually to those who are well rounded and show an interest in pursuing an engineering career. Eligible entries for the 2021/2022 year must be submitted by May 01, 2022.

Application date: \_\_\_\_\_

#### Personal information:

Last Name First Middle

Home address City State Zip

School address City State Zip

Phone # E-mail address -Home

Cell # -School

#### Faculty Reference:

Name Address Phone #

1. \_\_\_\_\_

#### Personal Reference:

Name Address Phone #

1. \_\_\_\_\_

2. \_\_\_\_\_

#### Education:

High School: Location Years Attended Graduation Date

College/University Location Years Attended Date graduating



GPA

American Society of Heating, Refrigerating &  
Air Conditioning Engineers  
Long Island Chapter, Region 001



## ANNUAL STUDENT SCHOLARSHIP

Essay: Please describe your interests, activities, goals and why you deserve this scholarship (Attach additional sheets as necessary).

[illegible]

I also agree that my misstatement or omission of any information requested in this application shall be valid reason for rejection of this application. In the event I am selected to receive the application, I agree to attend the local chapter award dinner. The dinner will be free of cost to the award recipient.

No question on this application is asked for the purpose of limiting or excluding any applicant's consideration for reasons proscribed by federal, state or local law, and discussions are based entirely on knowledge, skills and ability. Qualified applicants are considered without regard to race, color, religion, sex, national origin, disability or age to the extent prohibited by law.

Applicant signed

Faculty advisor signed \_\_\_\_\_

## Grassroots Government Activities Committee (GGAC)

Effective **March 1, 2022**, NYS Clean Heat program incentives for residential projects in Central Hudson, Con Edison, and Orange & Rockland service territories have changed. Please refer to blow link for Incentives.

<https://saveenergy.ny.gov/NYScleanheat/assets/pdf/NYS-Clean-Heat-Residential-Incentive-Updates-Effective-20220301.pdf>

### **March 31<sup>st</sup>:**

Governor Kathy Hochul today announced a call for applications for a second cohort of real estate partners to join the State's \$50 million Empire Building Challenge to help advance a climate-friendly building stock in New York State. Under the program, the New York State Energy Research and Development Authority is seeking teams of real estate portfolio owners and mechanical, electrical and plumbing (MEP) engineering companies to submit joint applications on retrofit approaches that can drive broad-scale decarbonization of heating and hot water in existing high-rise buildings. Full article at below link:

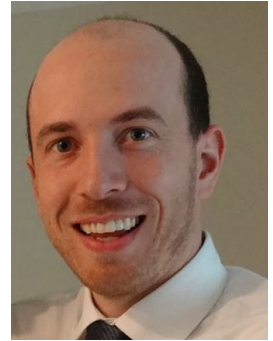
<https://www.nyserda.ny.gov/About/Newsroom/2022-Announcements/2022-03-31-Governor-Hochul-Announces-Applications-Open-for-Empire-Building-Challenge>

### **April 7<sup>th</sup>:**

Governor Kathy Hochul today announced \$10 million in funding is now available under Round Three of the \$40 million Buildings of Excellence Design Competition, which aims to deliver carbon neutral multifamily buildings for New York State. Full article at below link:

<https://www.nyserda.ny.gov/About/Newsroom/2022-Announcements/2022-04-07-Governor-Hochul-Announces-10-Million-in-Funding-BOE>

**James Hanna**  
**Membership Promotion Chair**



## YEA

### **2022 YEA Leadership Weekend 2.0**

Those who have attended the 1.0 leadership weekend can register for this event which will be held at Lake Tahoe. This event further expands on the experiences and skills from 1.0. If you are interested and have attended 1.0 please register quickly as registration closes on 4/16! Additional details for this event can be found in the YEA tab of the ASHRAE website (<https://www.ashrae.org/communities/young-engineers-in-ashrae-yea/yea-events-and-programs>).

### **YEA Leadership Weekend 2.0 (ashrae.org)**

**Michael S. Gerazounis**  
**YEA Chair**

**Rich Smith**  
**YEA Co-Chair**



## CTTC

We are excited to see all our chapter members **on April 12<sup>th</sup>, 2022, Tuesday 6:00 PM** at Westbury Manor. The presentation by Ryan Green, who serves as Director of Strategic Accounts for Nyle Water Heating, is about "Load shifting using commercial heat pump water heaters in multi-family buildings".

The following article from ASHRAE's "High Performance Building" journal, which gives free access for its members through the ASHRAE website, discusses "Behind Allegiant Stadium's Energy-Efficient Building Systems". So many scientists and engineers worldwide issue their findings from their building science studies and experiments at this Journal. These studies can be an excellent source for engineers trying to solve any issues or find new ways to implement projects.



In the meantime, don't forget to follow upcoming events on Long Island Sounder Newsletter and social media link:

<https://www.linkedin.com/in/ashraeli/>

**Murat Bayramoglu**  
**CTTC Chairman**

**Thomas DiBenedetto**  
**CTTC Co-Chairman**

**Sports & Sustainability: Behind Allegiant Stadium's Energy-Efficient Building Systems**  
March 23, 2022  
Site Staff



Allegiant Stadium in Las Vegas, Nevada. Allegiant Stadium is a domed stadium and is home to the Raiders of the NFL. istockphoto/wellesenterprises

Located in the middle of the desert, one of the National Football League's newest stadiums has proven sustainability and sports do make good teammates. Allegiant Stadium is home to the Las Vegas Raiders football team, University of Nevada, Las Vegas (UNLV) football team and the PAC-12 Championship Game. While an entertainment venue, the stadium's sustainable features help save energy and other resources.

"We are leveraging tech to redefine the hospitality experience at Allegiant Stadium," said Vikrant Bodalia, Allegiant Sta-

**CTTC**

dium's vice president of technology operations

The stadium's sustainability initiatives encourage major events to use sustainable practices, such as energy optimization based on the type of event, waste diversion, using efficient water fixtures and guest sustainability engagement, said Sam Johnson, vice president of Sales & Marketing at Allegiant Stadium. Energy-efficient technologies are part of these sustainability practices.

The stadium's chiller plant and air-handling units are a few of the most energy-efficient features. Allegiant's HVAC system is divided into quadrants, two of which are an air-handling unit and a bowl unit that serves each quad. Energy recovery ventilation that helps with dehumidification serves locker room spaces, and fan coil units that can heat and cool, depending on seasonal needs, service administrative areas.

Las Vegas' climate is challenging due to the extended cooling periods from March through May. To help, Allegiant schedules air-handling units to not overcool in the spring/early summer months and stages air-handling units on dark days—days without events—so they do not use unnecessary electrical loads. Allegiant also monitors its electrical load, so it does not exceed a 5-megawatt block during on-peak pricing time frames. Based on the 5-megawatt block structure, anything that exceeds that during high peak demands are charged a premium rate which drastically impacts, from a financial standpoint, monthly bills as well as inefficient facilities management best practices. Using a cloud-based system, the building system is accessed remotely via handheld devices and has unlimited storage capacity to store trend data.

Its lighting system has its own building management system that can change from sports lighting mode (high ambient intensity lighting) to concert mode (when all bowl lights are off) and schedule lighting systems as needed on a monthly and daily basis. Allegiant's sports lighting uses 1 megawatt of power, so they are kept off during non-event hours to further save on monthly energy use.

From a construction and design aspect, the electrical engineers did not know how energy efficient the building would truly be based on their selection of all air handling units, LED lighting and chiller plant selection, according to Joseph Wright, chief engineer at Allegiant Stadium.

The design was based on 20–25-megawatt consumption, but now that Allegiant has hosted a full season of games with fans in the building, it has more concrete numbers. During an NFL gameday, the stadium uses at most 9 megawatts. With 65,000 fans in the stadium, it is providing a climate-controlled comfort level that is more than adequate to the Las Vegas region that can hit triple-digit degree summers.

## ASHRAE CERTIFICATIONS

### Certification



*ASHRAE, accredited by ANSI under ISO/IEC 17024 for the High-Performance Building Design Professional (HBDP) program, has certified more than 2,000 Built Environmental Professionals.*

Energy Assessment

Energy Modeling

Commissioning

Healthcare  
Facility Design

High-Performance  
Building Design

Building Operations

#### ASHRAE certification programs:

- Are developed by industry practitioners who understand the knowledge and experience that are expected for superior building design and system operation
- Assure employers and clients of subject mastery
- Serve as a springboard for continued professional development
- Offer an easy-to-apply process

FOR MORE INFORMATION GO TO - <https://www.ashrae.org/education--certification/certification>



## Join ASHRAE on Social Media!



Follow **ASHRAE on Twitter** @ashraenews for up-to-date news, events, and articles about HVAC&R. Search #MyASHRAE on Twitter to see member photos from around the world.

Follow us on [Twitter](#)



### Most Popular Tweets

**Does It Cost More To Build Green? Benefits include reduced operating costs & construction waste.**

**Online Thermal Comfort Compliance Tool Included In New ASHRAE User's Manual.**

**87% of households in the US have #AC, 5% do in India. India's tough choice on air-conditioning and climate.**



**The November issue of the Journal is tested for binding strength to see how many times a page can be turned before the binding would fail.**

**Harvard & SUNY Upstate Medical University find that workers are healthier and happier in certified green buildings.**

**ASHRAE Standard 90.1 has been redefining energy savings since 1975. A new version is available now.**

**Adapting historical buildings for sustainable reuse.**

Get To Know ASHRAE





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SUPPORT THE  
ASHRAE  
LONG ISLAND CHAPTER**



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