



Twin Tiers Chapter

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

Special points of interest:

- President Message
- Twin Tier News
- Monthly Meetings
- Society News
- Scholarships
- Business Card Advertisements
- Employment

ASHRAE 2023-2024



Shaping Tomorrow's Built Environment Today

October Meeting Oct. 17, 2023

Sizing Single Duct & Fan Powered Terminals for VAV Applications Presentation:

Braydon Whittington & Evan Crawley,
Price Industries

To register, visit the Chapter website:
<https://twintiersashrae.org/>

Please send all newsletter comments to:
Andrew Nice, Newsletter Editor
c/o Meier Supply Co.
275 Broome Corporate Parkway
Conklin, NY 13748
[Email the Editor](#)

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Chapter President



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[Email Me!](#)

2023-2024
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Secretary
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President's

Corner

Hello ASHRAE Twin Tier Members,

I hope everyone is enjoying the fall and all the festivities this season comes with.

Thank you to George Slavik III (Slavik & Co Inc.) and AI Daniels (IPD Engineering) for presenting at our last chapter meeting. They both played a crucial role with the revitalization of the old Endicott Johnson Shoe Factory transforming it into the new Victory Building in Johnson City that now holds over 200 apartments. It always is a bonus when we can be onsite for a tour before diving deep into the engineering and mechanical designs that went into making these buildings come alive.

Also, thank you to Victoria Kramer and Mike McGinnis for representing our ASHRAE chapter at the 1st Greater Binghamton Clean Energy Careers Summit and Job Fair that was held at the end of September. We got invited to this event through the local Tier Energy Network (TEN). TEN is an industry led collaboration of business, non-profits, government, and education to support the development and promotion of clean energy in the Southern Tier. We are looking forward to continuing our relationship with TEN and seeing how we can support each other's organizations.

Tune in TODAY, Tuesday, October 17th at noon and join us for our virtual meeting where Braydon Whittington and Evan Crawley with Price Industries will be presenting on "Sizing Single Duct and Fan Powered Terminals for VAV Applications." 1 PDH credit will be available. Please visit our website for details and to register: <https://twintiersashrae.org/meetinginfo.php?id=30&ts=1696871006>

Mark your calendars for our 2 activities we have planned for November!

- YEA Panel Discussion on Wednesday, 11/8/23 from 5:30pm – 7:30pm at the Vestal Coppertop. More details to come.
- November Meeting on Tuesday, 11/21/23 from 5:00pm – 8:00pm at the Hotel Ithaca. We will be learning about "Indoor Cannabis Grow Room Design" from Chuck Nora and Paul Stewart from Desert Aire. Pre-register for the early bird discount by following this link: <https://twintiersashrae.org/meetinginfo.php?id=29&ts=1696872048>

ASHRAE has a vision for "a healthy and sustainable built environment for all." The action we take to help achieve this vision through our local chapter and different industry avenues is crucial now more than ever. Our chapter will be focusing on sustainability, work force development, DEI (diversity, equity, and inclusion) initiatives, all while continuing to provide technical presentations, educational project tours, and providing professional networking opportunities.

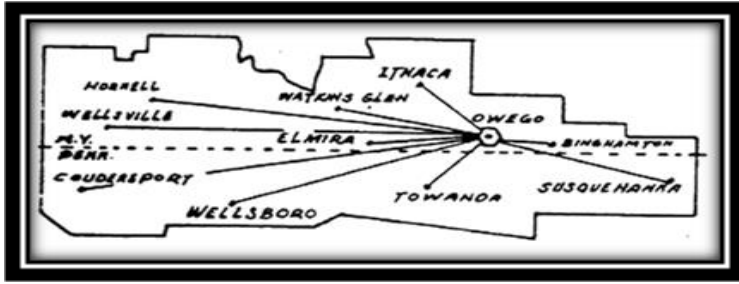
Our board of governors are focused on enriching your experience as members, so we are always open to feedback on our current events and how we can better serve you. Feel free to reach out to any of us if you have ideas or would like to get involved.

Thank you all for your support and we look forward to connecting soon!

Sincerely,
Dana Ehrets
Twin Tiers Chapter President

Newsletter Disclaimer Statement

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Twin Tiers Chapter

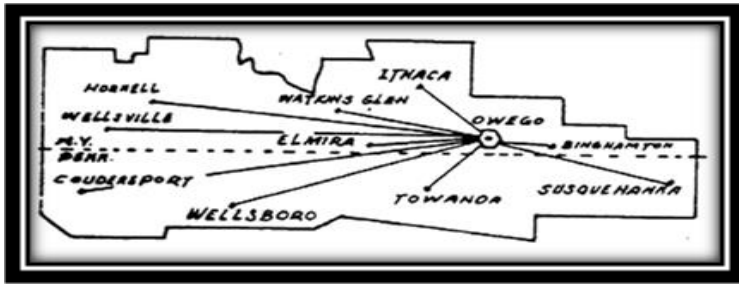
Presidential Award of Excellence (PAOE)

	Chapter Operations	Chapter Technology Transfer	Electronic Communications	Grassroots Government Activities	Historical	Membership Promotion	Research Promotion	Student Activities	Young Eng. In ASHRAE
MIN/PAR	600/1500	550/1500	300/700	500/1250	100/500	1000/1600	800/1050	500/800	300/900
Current	0	250	440	0	245	250	80	260	525

POINTS CURRENT AS OF 10/17/2023

Chapter Committee Chairs

Technology Transfer Alison Kran (631)806-5977 Email Me!	Government Activities Adam Keller (315) 484-9526 Email Me!	Refrigeration Kevin McKeon (607) 834-0734 Email Me!	Golf & Clambake Outing Travis Fisher (607) 972-1342 Email Me!
Membership Promotion Ben Nemec (607) 760-0449 Email Me!	Nominating Victoria Kramer (607) 321-6127 Email Me!	Meeting Reception Ibrahima Balde (607)723-9421 Email Me!	H.O. Ward Scholarship Richard Sanguinito (607) 231-6605 Email Me!
Research Promotion Michael McGinnis (607) 727-3168 Email Me!	Student Activities Jason Gilbert (607) 777-2240 Email Me!	Diversity in ASHRAE Mohammed Khalil (347) 982-5490 Email Me!	Albern Education Fund Jason Gilbert (607) 777-2240 Email Me!
Honors & Awards Victoria Kramer (607) 321-6127 Email Me!	Historian Richard Sanguinito (607) 231-6605 Email Me!	Symposium– Fall/Spring Robert J Vanskiver (585)472-6146 Email Me!	Auditing Rick Sanguinito & Andrew Nice (607) 231-6605 / (607) 760-5960 Email Me!
Webmaster Victoria Kramer (607) 321-6127 Email Me!	Newsletter Editor Andrew Nice (607) 760-5960 Email Me!	YEA: Young Engineers Kyle Nedlik (607) 321-6100 Email Me!	Sustainability Makayla Jackson (607) 232-5351 Email Me!



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Twin Tiers Chapter– Monthly Meeting Information

2023-2024 Meeting Dates:

Date:	Speaker	Tech Session Topic, Tour or Meeting Info	Attendance:
19-Sep	Tour Guide: George Slavik III, Slavik & Co. Presenter: Al Daniels, IPD Engineering	Tour: Victory Building Presentation: Victory Building Theme: Student Activities	-
17-Oct	Presenters: Braydon Whittington & Evan Crawley, Price Industries	Virtual Presentation: Sizing Single Duct and Fan Powered Terminals for VAV Applications	-
21-Nov	Presenter:	Presentation: Indoor Cannabis Grow Room Design Theme:	-
19-Dec	Presenter:	Presentation: Estimating with Trophy Point Theme:	-
16-Jan	Presenter: TBD	Presentation: TBD (Sustainability Based) Theme: Sustainability/Environmental	-
20-Feb	Presenter:	Presentation: NYS Climate Policy & HVAC Theme:	-
18-Mar	Presenter:	Presentation: Recruiting & Retention of the next Generation - Gen Z Theme: Student Activities	-
16-Apr	Presenters: Multiple	Spring Symposium	-
21-May	Presenter: TBD	Presentation: TBD (Refrigeration Based) Theme: Refrigeration	-
18-Jun	None	Golf Tournament	-

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Thank you Sponsors!

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Mike McGinnis Sr. Sales Engineer Equipment Business Unit 5615 Business Ave. Cicero, NY 13039 McGinnism@starktech.com Mobile: 607.727.3168

Total Facilities Optimization

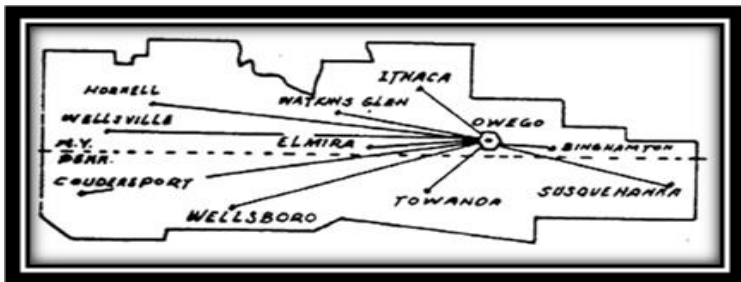


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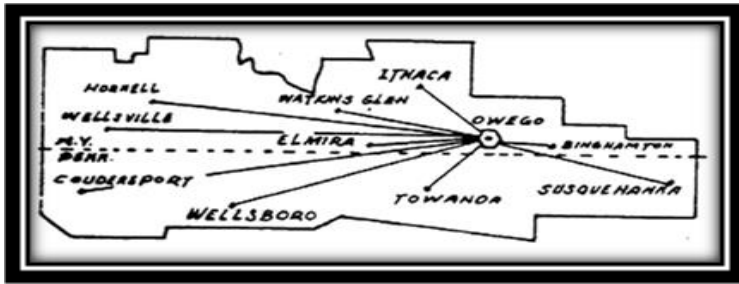
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October Chapter Meeting Announcement

October 17, 2023

ASHRAE Twin Tier October Chapter Meeting

- DATE:** Tuesday, October 17th, 2023
- TIME:** 12:00 PM - 1:00 PM
- SPEAKERS:** Braydon Whittingham & Evan Crawley, Price Industries
- PRESENTATION** Sizing Single Duct and Fan Powered Terminals for VAV Applications
- DESCRIPTION:** Terminal units are devices are used to regulate the volume and temperature of air for each zone to maximize occupant thermal comfort. While being fundamental to the modern HVAC design, their selection and optimization can be nuanced. This webinar will review best practices and rules of thumb for sizing single duct terminals, fan powered terminals, hot water reheat coils, and electric reheat coils. Additionally, we will review tools and strategies that help streamline the engineering design process and minimize submittal review.
- AGENDA:** 12:00 - 1:00: Presentation
- REGISTRATION LINK** [REGISTER HERE!](#)
- CONTACT:** Alison Kran
 (Please call, text, or email me at below with any questions or if you get lost)
 E: [Email Me!](#)
 C: (631)806-5977



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What Were They Thinking???



Really?!

Do you have a funny, “unique”, or just plain horrible installation picture?
Please send them to the Editor at anice@meiersupply.com

*** All names/brands are removed to protect the guilty. ***

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2023 Business Cards



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Vice President/Director of MEP Services

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Syracuse, NY 13206
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Sr. Mechanical Engineer

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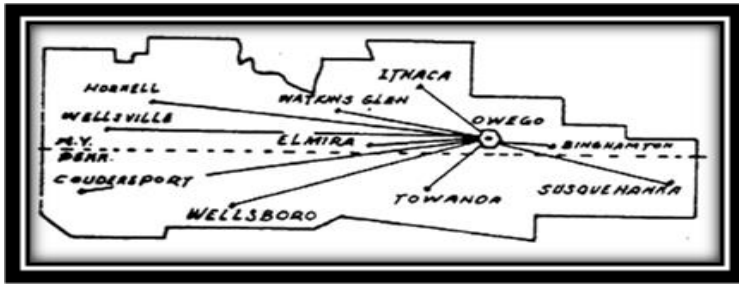
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TRAINING



New York State Professional Engineers Self Study Ethics PDH Available!

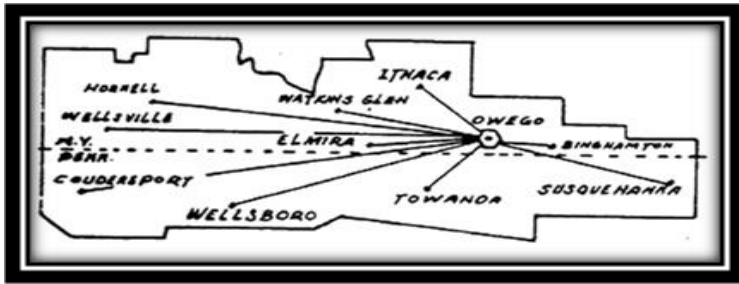
As a licensed professional in New York State, it is your professional responsibility to know the legal and ethical requirements governing the practice of your profession and to be alert to changes in those requirements. The New York State Board for Engineering and Land Surveying, in an effort to help you stay abreast of your professional responsibilities, has developed this short, self-study educational activity in ethics.

This educational activity is based on the New York State Education Law Articles 130 and 145, the Rules of the Board of Regents Parts 1, 3, 17, 18, 28, 29, 31, and the Regulations of the Commissioner of Education Parts 59 and 68. It is strongly recommended that, prior to taking the self test, you review these [foundational materials](http://www.op.nysed.gov/prof/pels/pelaw.htm) (<http://www.op.nysed.gov/prof/pels/pelaw.htm>) on the engineering web site.

Once you have reviewed the foundational materials, proceed to complete the self test below. When you have completed the self test, click the "Get your score" button at the bottom of the page. You should print this screen and save it as evidence of satisfactory completion of this educational activity. A score of 90% or greater will allow you to claim 1 Professional Development Hour (PDH) of educational activity credit in ethics ONCE in each three-year registration period. Retain your printed screen for no less than 6 years from the date of completion.

Take Your PE Ethics Self Test Here!

<http://www.op.nysed.gov/prof/pels/peceselftest.htm>



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TRAINING



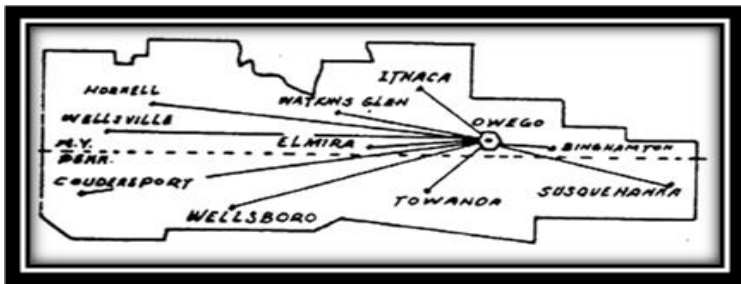
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The above websites offer free online courses that are approved for credit!



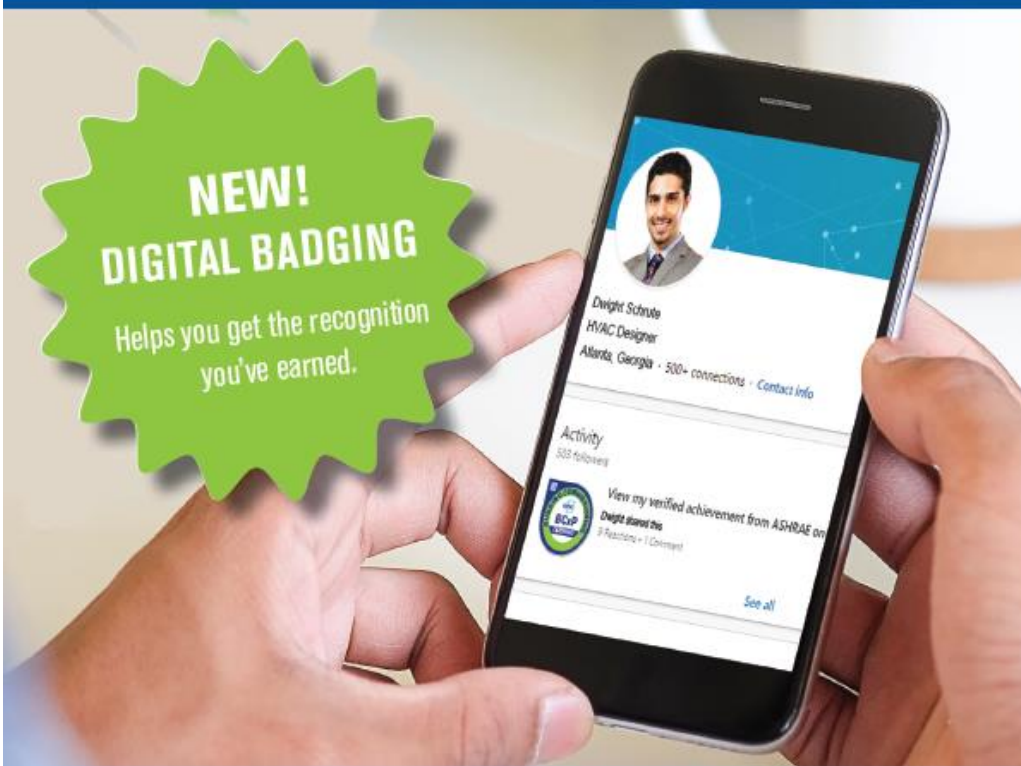


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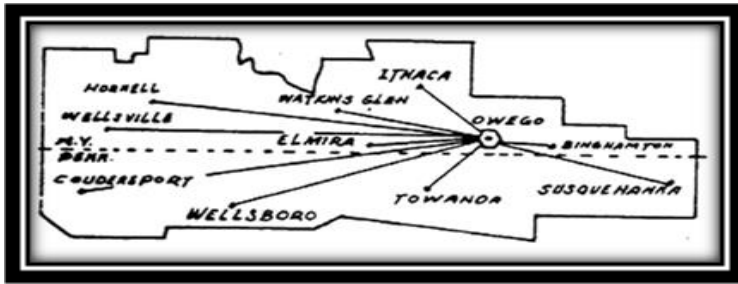
ASHRAE Certification

Advance Your Career Today!



With already more than 3,000 certifications earned to-date, ASHRAE programs were founded to meet the industry needs of today and provide value to thousands of built-environment professionals, employers and building owners.

ashrae.org/certification



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Certified HVAC Designer (CHD)



- The CHD certification validates competency of an HVAC Designer, working under the responsible charge of an engineer, to design HVAC systems to meet building/ project requirements, including load calculations, equipment selection and sizing, mechanical equipment room design, duct and piping design and layout for the development of HVAC plans for permit and construction.
- In an Industry Need survey, ASHRAE member respondents who influence the hiring decision agree the CHD is a tool to identify competent new hire prospects.

High-Performance Building Design Professional (HBDP)



- The HBDP certification validates competency to design and integrate sustainable HVAC&R systems into high performing buildings.
- Today's building design market requires use of ground-breaking technologies in new and existing structures to meet the need of building owners.

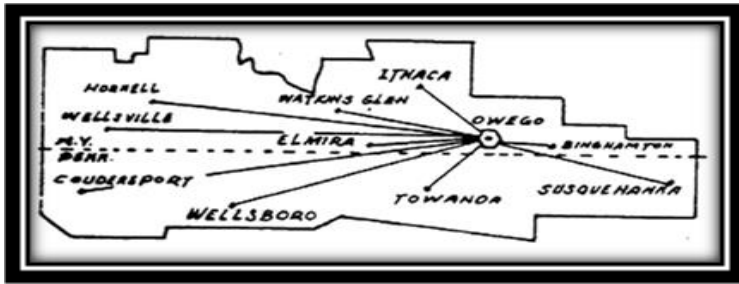
Building Energy Modeling Professional (BEMP)



- The BEMP certification validates competency to evaluate, select, implement, calibrate and interpret the results of energy modeling software when applied to new and existing building and systems energy performance.
- The BEMP certification complements ASHRAE's Building Energy Quotient (BuildingEQ) program by helping to ensure that only qualified practitioners can submit As Designed Workbooks to receive building ratings from ASHRAE.

"Because of the high level of expertise, professionalism and ethics demonstrated by ASHRAE, achieving certification under their established requirements implies one of the highest levels of competence and knowledge available in the industry."

Jeffrey G Ross-Bain, BCxP, BEMP, Ross-Bain Green Building, LLC



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Building Commissioning Professional (BCxP)



- The BCxP certification validates competency to lead, plan, coordinate and manage a commissioning team to implement commissioning processes in new and existing buildings.
- Recognized by the U.S. Department of Energy (DOE) as meeting the Better Buildings Workforce Guidelines (BBWG).

Healthcare Facility Design Professional (HFDP)



- The HFDP certification validates competency to incorporate standards, guidelines as well as unique healthcare facility requirements and design principles in HVAC system design.
- Advances in technology, shifting environmental requirements and an increasingly older population have created a critical need for expansion and renovation of healthcare facilities.

Building Energy Assessment Professional (BEAP)

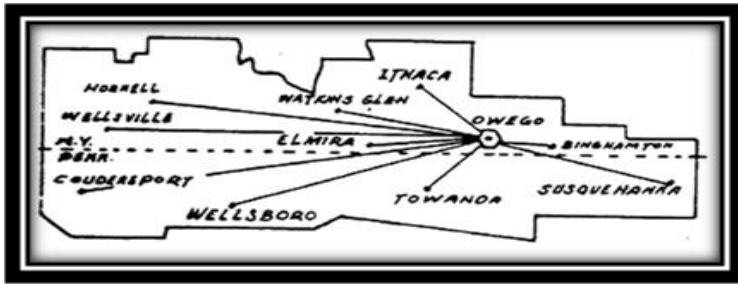


- The BEAP certification validates competency to assess commercial building systems and site conditions, analyze and evaluate equipment and energy usage, and recommend strategies to optimize building resource utilization.
- The BEAP certification is integral to ASHRAE's Building Energy Quotient (BuildingEQ) program by helping to ensure that only qualified practitioners can submit In Operation Workbooks to receive building ratings from ASHRAE.
- Recognized by the U.S. Department of Energy (DOE) as meeting the Better Buildings Workforce Guidelines (BBWG).

Operations & Performance Management Professional (OPMP)



- The OPMP certification validates competency to manage facility operations and maintenance to achieve building performance goals, including those related to indoor environmental quality, health and safety.
- Staying current with the latest facility operation strategies and technologies can reduce energy use in buildings by 10% to 40%.



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The Benefits of an ASHRAE Certification

Value for Certification Earners

- ✓ Validation of specialized knowledge, skills and ability
- ✓ Unparalleled recognition
- ✓ Career development

Value for Employers

- ✓ Identify and recruit qualified professionals
- ✓ Elevated credibility among customers
- ✓ Greater employee job satisfaction

Easy Steps to ASHRAE Certification

1. Read the *Candidate Guidebook*

Visit ashrae.org/certification and download the guidebook for the program in which you are interested.

2. Complete the Application

The ASHRAE Member discounted application fee is \$395 (non-member – \$545).

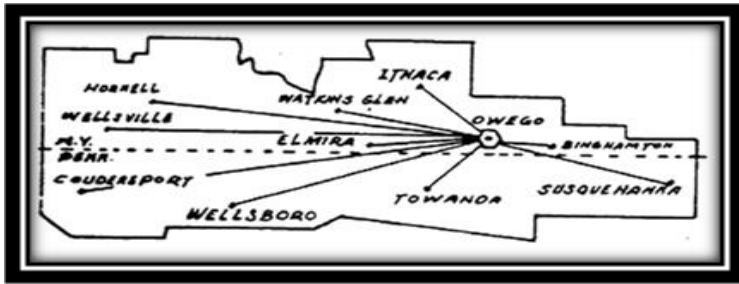
3. Schedule an Examination

Certification examinations are offered at over 300 conveniently located computer-based testing centers worldwide.

4. Renew the Certification

Each certification is renewable every three years.

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Very High Efficiency HVAC—NYERDA Pilot Program

Opportunity to Participate

NYERDA has created a program to demonstrate extremely advanced HVAC systems in 15 existing small and medium commercial buildings in New York State. Administered by the Institute for Market Transformation, the program is actively seeking participants for 2021. NYERDA funds HVAC demonstration programs to find practical solutions for building owners that will help New York meet its climate commitments.

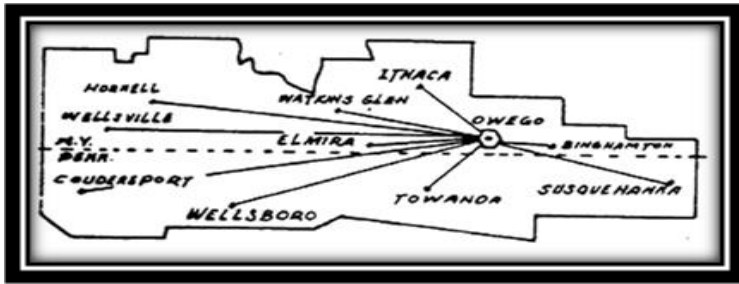
Why Participate?

Right now, tenants, staff, and customers are demanding increased ventilation to feel safer in buildings. In most HVAC systems, this means a tradeoff between fresh air and operating costs. With Very High Efficiency HVAC (VHE HVAC), the system provides 100% highly filtered outside air, improving air quality while also dramatically reducing energy bills.

How Does It Work?

VHE HVAC is a systems approach that combines high-efficiency equipment with heat recovery, a dedicated outdoor air system, advanced filtration, and airflow segregation that limits the spread of contaminants. Developed by the Northwest Energy Efficiency Alliance, VHE HVAC was tested between 2015 and 2018 in eight, [rigorously-documented](#) demonstration sites in the Pacific Northwest. The resulting HVAC savings ranged from 48%–89%.

Building Type	Energy Savings
Airport terminal office	89%
Government district office	73%
Government dorms	77%
Law office	75%
Pizza restaurant	51%
Restaurant	77%
Seattle office	69%
Utility district office	48%



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"There was definitely a noticeable difference—this was a much more comfortable environment. Other people in areas that hadn't yet been converted kept asking 'When are we getting our air fixed?'"

Ryan McCormick
Chief Engineer
Oregon Department of
Fish & Wildlife

What Buildings Are Eligible?

VHE HVAC is a total system replacement. The pilot is open to commercial buildings six stories or less with heating and cooling provided by packaged rooftop or small unitary systems that are at the end of their service life and planning to be replaced. Buildings higher than six stories with floors that have self-contained HVAC systems will also be considered as will multifamily residential buildings with construction suitable for installing ductwork to distribute ventilation air through chases and plenums. Excellent applications for VHE HVAC are office, retail, lodging and educational buildings.

What Do Participants Receive?

Participants will receive applicable utility incentives, 15% discounts on equipment, technical assistance from start to finish, detailed monitoring data, increased net operating revenue, and brand and media recognition. VHE HVAC also helps ensure compliance with current and planned building regulation, such as New York City's Local Law 97.

What Are Participants Obligated to Do?

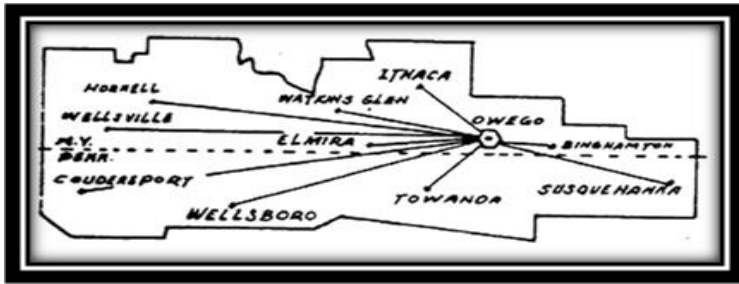
- Meet all VHE HVAC specifications
- Provide access to design and installation teams
- Allow installation of NYSERDA-provided monitoring equipment
- Provide pre- and post-installation utility bills, the cost of installation and alternate bids, and access to facility maintenance staff and selected tenants for interviews

Partners

The Institute for Market Transformation is partnering with manufacturers Fujitsu and Ventacity Systems to procure the equipment for this pilot program.

For details on the pilot program and how to participate, contact vhehvac@imt.org.

Learn more at www.imt.org/very-high-efficiency-hvac/.



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SUSTAINABILITY ARTICLE

How is food waste contributing to the climate crisis and how can composting help?

Food waste makes up approximately a quarter of the trash sent to landfills. When organic waste sits in landfills, anaerobic bacteria break down the waste and emit large amounts of methane, a major greenhouse gas. Some landfill operations harness the methane for energy, but that is not usually the case.

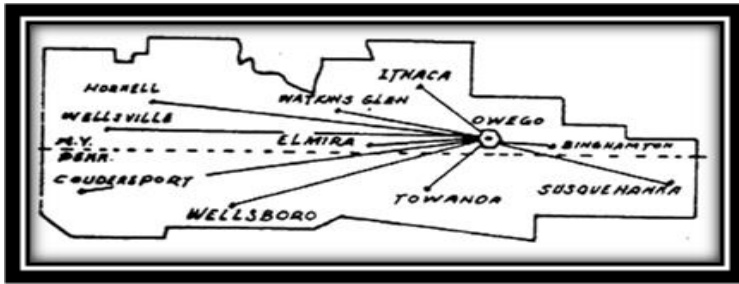
Whether it is in the backyard or a commercial operation, composting can help reduce the impact that food waste has on the environment. The composting process supports a complete food cycle that gives nutrients back to the environment, rather than going to waste in the landfill. As a product the compost is a useful plant fertilizer.

There are different types of composting and several factors to consider when choosing a method, but the essentials to balance are a good ratio of carbon (browns), nitrogen (greens), moisture, and air. When these are balanced and aerobic conditions are maintained, minimal methane is produced from compost piles.

If you are interested in learning more about how composting can reduce our environmental impact, check out the following link:

<https://www.epa.gov/sustainable-management-food/reducing-impact-wasted-food-feeding-soil-and-composting>





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INDUSTRY ARTICLE

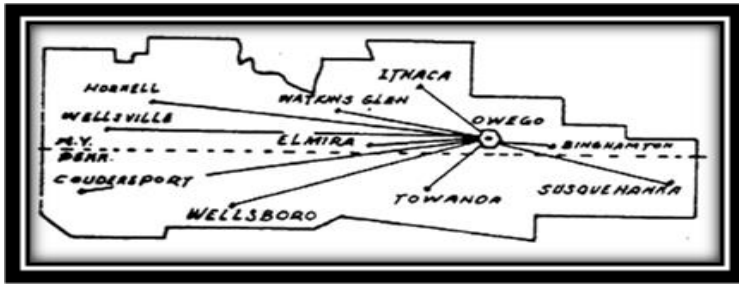


We are thrilled to [announce](#) the launch of a new and valuable resource, ***Decarbonize with Resilience: A Guide for New York Hospitals.***

This comprehensive, online tool is the result of an ongoing industry collaboration led by The New York Healthcare Protocol Team. The Team is led by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) New York City Chapter, with Regional and Society Leadership, and support from the New York State Energy and Research Development Authority (NYSERDA). This public/private partnership is comprised of over 80 organizations that have contributed their time, energy and expertise to inform the essential components of this guide. For a complete list of contributing organizations comprising the New York Healthcare Protocol Team, please visit the "[About Us](#)" section of the Guide.

The Guide will help hospitals to navigate the decarbonization process as efficiently and cost-effectively as possible, to achieve sustainability goals, and adhere to regulatory standards, all while retaining operational resilience. It contains practical approaches to decarbonization and resilience strategy development and implementation, benchmarking and measurement tools, case studies, and other valuable information that hospital administrators and staff can use to kick-start decarbonization projects at their institutions.

[Read More About the Guide](#)



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[Twin Tiers Chapter–
Business Cards Advertisement for Newsletter](#)

ADVERTISE your business card:

- Current business card adds will expire at the end of this year, December 31, 2023.
 - New subscription will run the calendar year 2024.
 - Cost to advertise for the 2024 year is \$50.

- Sign up now for the 2024 year on our website: <https://twintiersashrae.org>

Or Send Check and copy of business card to Twin Tier News Letter Editor:
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 Attn: Andrew Nice
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 Conklin, NY 13748

- Email a copy of your business card to [Twin Tier Newsletter Editor Email](#).
- To pay for your advertisement please visit: <https://twintiersashrae.org>

Business Card Advertising 2024

The Twin Tiers Chapter of ASHRAE can accept business card advertising with the following provisions:

- The company must be associated with HVAC&R technology.
- The company must be a local service provider, a local manufacturer, or a manufacturer's representative serving the area.

If you aren't sure, just ask.

We are now accepting business card advertisements for the newsletters that will be published in 2024. This is a great opportunity to get your name and business in front of the over 250 subscribers to our chapter newsletter. The price for the newsletter only is \$50 for the entire 2024 year.

Business card ads can be placed using a scanned electronic copy of your business card, or you can mail your card to me (please no staples or paper clips).

Questions? Call or email
 Thank you for your support!
 Andrew Nice
[Twin Tier Newsletter Editor Email](#)

Comments? Suggestions?

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We welcome your feedback!



ASHRAE Mission Statement

ASHRAE will advance the arts and sciences of heating, ventilation, air conditioning, refrigerating and related human factors to serve the evolving needs of the public and ASHRAE members.

Ethics Requirement for PE

PE's in NYS will be required to have one hour of Ethics within their 36 hours of continuing education for registration periods beginning August 1, 2011 and after.

ASHRAE Vision Statement

ASHRAE will be the global leader in the arts and sciences of heating, ventilation, and air conditioning.

ASHRAE will be foremost authoritative, timely, and responsive source of technical and education information, standards and guidelines.

ASHRAE will be the primary provider of opportunity for professional growth, recognizing and adapting to changing demographics, and embracing diversity.

***Advancing HVAC&R to
serve humanity and pro-
mote a sustainable world"***

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