



Newsletter

Energy savings in swimming hall leads to poor indoor air quality

Energy prices in Sweden skyrocketed to more than 14 times the normal cost for a period in 2022. Swimming halls have a high energy use in order to ensure a functional swimming hall that is comfortable for both users and employees. One such swimming hall tried desperately to save energy by shutting down systems they thought were not essential.

[Read more on page 2](#)

Training in September:

- **Membership Promotion virtual centralized training**

New and returning MP Chairs/Co Chairs can learn how to run membership campaigns, allocate resources and automate communications in this course. This will be important to grow our new ASHRAE Nordic Chapter.

- **RP centralized training**

This is the final sessions of the RP Centralized training which began on July 1. Chapter RP Chairs are encouraged to attend the remaining sessions.

[Read more on page 3](#)

Inside this issue

Regional Conference	2
Refrigeration	2
CEBD.....	3
GWP Innovation award	3
Buildings XVI.....	4
Upcoming Events	4
ASHRAE Job Board	4
GroupPay	4
Decarbonization Challenge.....	5
HVAC Design Training.....	5
Technology Portal	5
Regional Officers	6
Next Chapter Meeting	6
About	6



Energy savings in swimming hall leads to poor indoor air quality

In recent years the cost of energy has risen all over the world. Sweden enjoyed cheap energy for a long period of time, however in 2022 energy prices skyrocketed. Homeowners cut back their energy use to save money, however some groups could not do this and had to pay hourly rates up to 7 SEK per kWh before tax! Historically the energy cost has been closer to 0,45 SEK per kWh.

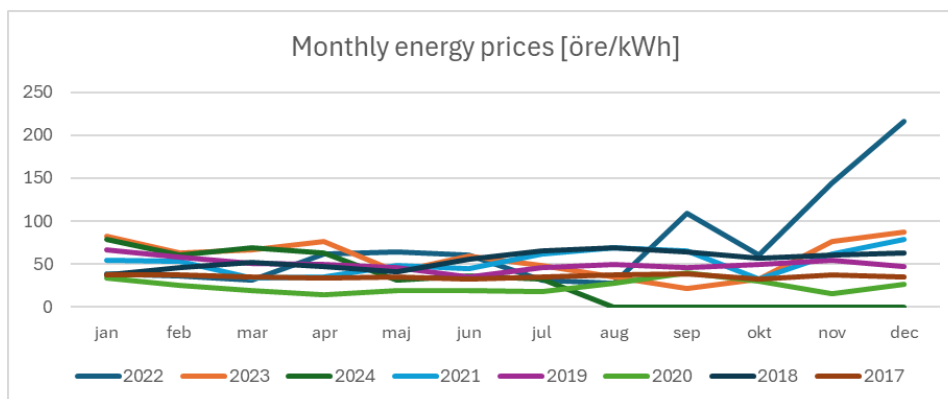
One group that was hard hit was the cities and counties operating swimming halls. Some admitted that the heating cost was too high and closed their pools. Others lowered the water temperatures by a few degrees. However, in one case they even decided to shut down the swimming hall's ventilation system at night, since it used a lot of energy when no one was at the pool.

Not long after implementing this energy savings measure, the moisture from the pool started causing problems. Condensation could be found within the building and some mold began growing. In addition to this, the stainless-steel fixtures began to rust.

In this case the combination of high relative humidity combined with the chlorine in the air started corroding the metal. It is unknown how high the relative humidity was during the night, but a swimming hall usually maintains about 55-60 % RH for thermal comfort. Stainless-steel does not react at this moisture level.

It is also unknown how high the concentration of various air contaminants, for example trichloramine (byproducts of organic matter reacting with chlorine), was however it can be assumed that it was unacceptably high during this period. This is significant because some contaminants are carcinogenic and, in some instances, are responsible for poor work environments at swimming halls. The swimming hall realized that their energy savings measures were damaging the swimming hall and were forced to operate the ventilations system as before.

Energy savings in swimming halls can be realized, however this requires careful planning during the design phase of the project. Energy savings in an existing, functional swimming may be possible in some cases, but not by shutting down process-critical systems. A good knowledge of building services, building science and the chemical processes affecting the work environment are needed for a successful implementation.



ASHRAE Regional Conference 2024

ASHRAE UK will host the regional XIV Chapter Regional Conference (CRC) between 19-22 September at Oxford University. Register now at: <https://www.ashrae.uk/ashrae-region-xiv-crc-2024/>

The theme for World Refrigeration Day 2024 was "Temperature Matters"

The World Refrigeration Day (WRD) celebrated the people and technologies responsible for creating and maintaining temperature-controlled environments. This year's theme was "Temperature Matters...Absolutely!". The campaign explored the broad impacts of the refrigeration, air conditioning, and heat pump industry, emphasizing not only efficient cooling and heating but also crucial aspects of indoor environmental quality. It coincided with the bicentenary of Lord Kelvin's birth, a pioneering figure in thermodynamics, whose work influenced both cooling and heating technologies. Lord Kelvin's insights also paved the way for heat pump technologies, crucial for global decarbonization efforts.

CEBD - Center of Excellence for Building Decarbonization

Join Us on the Journey to Zero!

Building owners, government jurisdictions and industry professionals around the world are responding to accelerating climate change and recognizing that building decarbonization is a significant component to their efforts. The worldwide building sector accounts for about 40% of energy-related carbon emissions and the global building stock is predicted to double by the year 2060.

Are you interested in participating in projects on decarbonization? If so, please send an email to:

decarb@ashrae.org

Join us for Membership Promotion Virtual Centralized Training

As we embark on another exciting journey with ASHRAE, we are thrilled to kick off the new membership year filled with promise, innovation, and collaboration. For over a century, ASHRAE has been at the forefront of shaping the future of the built environment, and this year promises to be no different.

ASHRAE saw membership grow in the 2023-2024 year, and we can continue this trend going forward. The ASHRAE Membership Promotion Committee is here to assist, guide, and support the local chapter chairs in their endeavors.

To this effort, the Membership Promotion Committee will be hosting a Virtual Centralized Training on Friday, September 13, 2024; 9 a.m. to 1 p.m. Eastern Daylight Savings Time. If you attended the Centralized Training in Indianapolis, you do not need to register or attend this one.

There is no fee to register for Centralized Training.

After attending Centralized Training, you will be fully equipped and ready for an exciting new membership year. You will know how to quickly and efficiently complete membership campaigns, monthly tasks, automate communications, locate resources, and so much more. These training sessions are for both new and returning MP Chairs and/or Co-Chairs. Attendance is highly encouraged!!

Please direct any questions to Daniel Gurley at dgurley@ashrae.org

<https://www.ashrae.org/communities/committees/standing-committees/2024-2025-membership-promotion-centralized-training>

RP Centralized Training in September

Did you know the RP Campaign started on July 1? This past weekend we had our first session of RP Centralized Training and welcomed volunteers from six regions to learn how to manage their chapter RP Campaigns.

Thank you to all the volunteers who participated. We're starting

the year off strong to make the 2024-25 RP Campaign the best one yet!

Chapter RP Chairs are encouraged to attend the remaining sessions of RP Centralized Training in September. For more information and to register, visit www.ashrae.org/rp.



2024 Lower Global Warming Potential Innovation Award

A joint ASHRAE and UN Environment award promotes innovative design and practice by recognizing

people who have implemented innovative technological concepts applied in developing countries to minimize global warming potential (GWP) through refrigeration and air-

conditioning management. Submissions are now being accepted for the 2024 awards. Deadline for submission is August 15, 2024.

See the link below for entry requirements and to submit project descriptions through an online entry form.

<http://www.ashrae.org/unep-gwp>



2025 Buildings XVI International Conference

ASHRAE is pleased to announce a call for abstracts for the 2025 Buildings XVI International Conference to be held in Clearwater Beach FL on December 8-11, 2025 at the newly renovated Sheraton Sand Key Resort. The conference is co-organized by ASHRAE and the Oak Ridge National Laboratory.

Abstracts on both residential and commercial applications are sought.

The topics for the residential track are broader and also cover research related to heating, cooling and ventilation systems and their im-

pact on the indoor environment and energy performance. Papers should demonstrate how their topics will lead to high performance buildings, demonstrate technologies ready for implementation, and show the promise of short to mid-term adoption. Selected papers will be offered the opportunity to be expanded and published in ASHRAE's Science and Technology for the Built Environment.

Abstract submissions are due by **September 20, 2024**. If accepted, papers will be due **April 1, 2025**. For more information or to submit an abstract, visit ashrae.org/BuildingsXVI.

Upcoming events

Date	Type of event	Location	Event
Nov.	Physical	Denmark	Inauguration Chapter Meeting, 2024-25 ASHRAE President M. Dennis Knight
Nov.	Virtual	N/A	Student Meetings: Students as Speakers

ASHRAE Job Board

MV DRIVES BUSINESS DEVELOPMENT ENGINEER, PRODUCT MANAGEMENT

Danfoss Drives is looking for a MV drives business development engineer to join our Product Management team in Research Triangle Park, NC. You will become an active part of a passionate and driven team and be given the opportunity to develop yourself personally and professionally. We offer an ambitious and passionate working atmosphere with highly skilled and experienced colleagues in a global work environment.

Danfoss Drives is a global leader in AC/DC and DC/DC power conversion, as well as variable speed control for electric motors. With the world's largest portfolio of power converters, VACON drives and VLT drives, our journey to a better future is only just beginning. We focus on energy efficiency, sustainability and quality in our products, as well as inclusion and diversity in our work environment.

For more information on this, or other positions visit: jobs.ashrae.org

GroupPay

The GroupPay program is designed to allow for an easy payment from a single invoice for all employees within an organization. Memberships are still individual to the employee and cannot be transferred within the organization. A primary contact at the organization must be identified and will have access to a special online portal to view employee members and select which ones they wish to be invoiced for. If employees have left the organization, the primary contact can remove them from the list.

The Primary Contact can view the annual complimentary selected benefit for their employees.

Chapter dues may be paid alongside Society dues for the group or left up to the individual to pay directly to the Chapter.

The Organization can benefit from 10% off the full dues rate when 5 or more employees join as a new member at once. Current dues rate will be charged for renewals.

Email GroupPay@ashrae.org to get started.

ASHRAE Decarbonization Challenge 2024-2025

Dennis Knight has announced his presidential theme, workforce development and DEI. His plan includes continuing the Decarbonization Challenge Fund, a year-long competitive fund (\$1,000-\$10,000) program to implement decarbonization projects within local chapters that are tied to this year's presidential theme. This program is implemented through the YEA committee with grassroots outreach through the YEA chairs/committees at each chapter.

In order to apply for The Decarbonization Challenge Fund, the primary applicant must be a Full, Associate or Affiliate ASHRAE member. **This program is implemented through the YEA committee with grassroots outreach through the YEA chairs/committees at each chapter.** Click on the link below for more details or to submit an application.

<https://www.ashrae.org/about/yea-decarb-initiative>

See the CEBD website for more information on Building Decarbonization.

<https://www.ashrae.org/about/cebd-center-of-excellence-for-building-decarbonization>

EARLY BIRD DEADLINE APPROACHING! Register before August 9

ASHRAE HVAC Design Training Denver, CO | September 9-13 2024



Enjoy over \$250 in savings on the list price as an ASHRAE Member. Also, remember to register a group of 3 or more for even greater savings!

ASHRAE's HVAC Design training is heading to Denver from September 9-13! Learn the fundamentals of HVAC systems and how to apply ASHRAE Standards. This course is ideal

for recent grads, engineers, facility managers, and sales reps. Kickstart your career in HVAC Design. Register today!

<https://www.ashrae.org/professional-development/all-instructor-led-training/hvac-design-and-operations-training/hvac-design-training-tools-for-high-performance-building-design-denver-sept-2024>

ASHRAE Technology Portal



ASHRAE Technology Portal is your one-stop location for access to ASHRAE papers, articles, reports, PDFs, seminar recordings, and web-based subscription products. As an ASHRAE Member, you have free access to the ASHRAE Journal Articles and Research Reports sections. ASHRAE Handbook PDFs, Handbook Online, Standards and Guidelines, eLearning Courses, and Certification Study Guides are accessible

according to each member's benefit selection at joining or renewal. ASHRAE Members and Non-Members can purchase content within the ASHRAE Technology Portal or at each web-based product with a subscription. Access the portal today and start taking advantage of your member benefits!

ashrae.org/technologyportal

ASHRAE Regional Officers

Director & Regional Chair (DRC)

Mahroo Eftekhari

YEA Regional Vice Chair (RVC)

Joshua Vasudevan

Nominating Committee Chair

Bratislav Blagojevic

Regional Nominating Committee Alternate

Marko Ignjatovic

Government Affairs Regional Vice Chair (GA RVC)

Ioan Silviu Dobosi

Chapter Technology Transfer Committee Regional Vice Chair (CTTC RVC)

Conor Murray

Region Members Council Representative (RMCR)

Eduardo Maldonado

Region Communications Committee Chair & Webmaster

Enea Dimitris Tseno

Treasurer

Liviu Drughean

Historian

Lawrence Copestick

Research Promotion Regional Vice Chair (RP RVC)

Aleksandar Andjelkovic

ASHRAE Region XIV Brussels Office contact

Ana Roios

Student Activities Regional Vice Chair (SA RVC)

Triantafyllos Triantafyllopoulos

Regional CRC General Chair

Gary O' Sullivan

About

ASHRAE Nordic Chapter is a local branch of ASHRAE, a global society founded in 1894. ASHRAE's mission is to advance human well-being through sustainable technology for the built environment. With more than 50,000 members from over 132 nations, ASHRAE is an engineering organization dedicated to advancing the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world. The organization contributes to shaping tomorrow's built environment through research, standards writing, publishing, certification, and continuing education. The geographic area covered by ASHRAE Nordic Chapter is Denmark (Faroe Islands and Greenland), Iceland, Norway, Finland (Åland), and Sweden.

Next Chapter Meetings

November 6, 2024 — Students as Speakers, Francisco Beltran V. Varela

February 2025 — Field Trip

March 2025 — Students as Guests

April 2025 — Joint Meeting

May 2025 — Annual Chapter Meeting

June 2025 — University Research



Visit:
www.linkedin.com/company/ashrae-nordic