



Internasjonale nyheter Nr 38

How can cities phase-out fossil fuels from the existing building stock?

The 3rd edition of DecarbCities Conference taking place on 11-12 May 2022 in Vienna, will provide a platform to present technical and organizational solutions for and from cities, showing a breadth of approaches to replace existing fossil fuel-based technologies with heating systems that use renewable energies and to reduce heat demand. The current pandemic has shaken European Union's economies, pushing Member States to implement new instruments to guarantee stability and security. To tackle climate change, the European Union and its citizens need to redefine what energy stability and security mean. A volatile and unpredictable gas market underlines this urgency to phase-out fossil fuels from our economies. Only a combination of a reduction of the energy demand and massive deployment of local and renewable technologies ensures energy security for all. A well-planned and executed heat transition, driven by local needs and resources, and supported by national and European actors, can provide energy security for all, halt climate change and improve quality of life. The DecarbCities conference will showcase how cities can succeed in this challenge and define clear delivery pathways for future-proof urban heating and cooling solutions.

Semi-hermetic reciprocating compressor boom:

EcoDesign regulations require that chillers must exceed specified minimum efficiencies, so compressors must also be as efficient as possible. Demand for inverter reciprocating compressors has also increased rapidly. The demand for refrigeration and heat pumps adopting natural refrigerants such as CO₂ and lower GWP refrigerants has driven the market.

Carrier aims to regain primacy in Global AC market with stronger VRF lineups

Carrier Global will acquire a 95% ownership stake in Toshiba Carrier, becoming the largest shareholder of the joint venture (JV) with Toshiba established in 1999, aiming to strengthen its businesses in the variable refrigerant flow (VRF*) and light commercial air conditioning segments.

German HP market needs subsidies for healthy growth

In 2021, Germany saw sales of heat pumps reach 154,000, with year-on year growth of 28%, according to joint sales statistics on the heating market from BDH, the German Heating Industry Federation, and BWP, the German Heat Pump Association. One of the factors behind this strong growth is thought to be the heat pump subsidy system implemented by the German government.

China's VRF market grows explosively in 2021

According to the statistics from aircon.com, China's VRF market in the first half of 2021 reached about RMB 30 billion (about US\$ 4.7 billion), an increase of more than 45% year on year, and more than 30% even compared with the first half of 2019 before the pandemic. For the whole year of 2021, JARN estimates that China's VRF and mini-VRF market increased by 20% and 30% year on year respectively, based on interviews with China's major air conditioner and compressor manufacturers.

Use of R290 equipment expanding in supermarkets

Globally, an estimated 2.5 million R290 refrigerated display cases had been installed in supermarkets as of 2019. Europe has been the leader in this trend, but major retail chains in the United States are increasingly following suit. As of 2019, Target, a retail giant, was using R290 cases in more than 1,000 stores, while Whole Foods Market was using them in at least 500 U.S.



Regulations

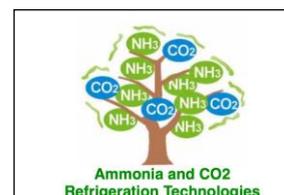
Seizure of illegal refrigerant gases

One week of operations coordinated by Dutch authorities and supported by the European Anti-Fraud Office (OLAF) and Europol has led to the seizure of at least 2,100 cylinders of illicit HFCs – hydrofluorocarbons – for an estimated value of over 10 million Euros. The illicit imports of these gases circumvent EU rules and can cause significant [...]



The new edition of the conference "CO₂ and Ammonia Refrigeration Technologies"

The tenth edition of the international conference "CO₂ and Ammonia Refrigeration Technologies" will be held from 27th to 29th April 2023 at Ohrid, in Macedonia. Out of all refrigerants applied today, CO₂ and ammonia are the most ancient, used since the XIX century. The technological evolutions they have undergone nowadays make them the most suitable





IEA Heat Pump Conference 2023

The submission is now open Abstracts (250 words maximum) covering the conference theme may be submitted on the conference website. The abstracts will be screened and authors will be advised of acceptance by June 15, 2022.

Important dates are given below.

- Abstract submission due May 15, 2022
- Full paper submission due November 15, 2022
- Final paper submission due February 15, 2023

Not yet a subscriber to the HPT Magazine?



The Heat Pumping Technologies Magazine is a magazine about heat pumping technologies, markets and market development, and

information from the annexes (projects) in the program. In each issue, there is also a column, where the author gives his view of a topic of hers or his own choice, a list of selected heat pump-related events, and sometimes a strategic outlook, presenting policy affecting markets, from the author's viewpoint.

[Become a subscriber of the HPT Newsletter and Magazine here.](#)

Apply for the Heat Pump Award 2022 –

The application is now open Do you have any innovative Heat Pump projects developed at a local level?

Then you can be the winner in one of the 5 categories below:

- Heat Pump City of the Year
- DecarbIndustry
- DecarBuilding (residential and commercial)
- The lighthouse heat pump project
- People's choice award: The most popular HP project

Apply for the Heat Pump Award 2022 – The application deadline is August 12, 2022.

[Read more](#)

IEA Annex 54 Annual Report 2021

The Annual Report 2021 for Annex 54 – Heat Pump Systems with Low-GWP Refrigerants, is now available.

This report provides a comprehensive, most up-to-date review of current research and the development of systems and their optimizations using low-GWP refrigerants for heat pump applications. It also includes a state-of-the-art review of life cycle evaluations of such systems using low-GWP refrigerants. It summarizes the collective efforts by researchers, engineers, and regulation committees across the industry.

[Read more >](#)

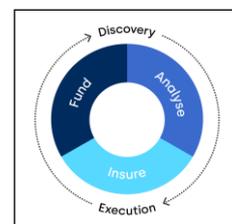
Climate leap – How investors are reaching major emissions cuts in existing property portfolios

Climate leap – How investors are reaching major emissions cuts in existing property portfolios In buildings, the energy consumption arising from electricity and heating is the primary source of carbon dioxide emissions. Improving the energy efficiency of buildings is one of the most viable paths to decreasing this consumption and the associated carbon emissions. The main goal of Varma, one of Finland's largest real estate investors, is to reduce the carbon dioxide emissions of its direct real estate investments by switching to fossil-free heating and electricity by 2030 and 2025, respectively.

[Read more >](#)

Why risk profiling is key to making large-scale decarbonization financially executable

The phasing out of fossil-fuel-based heating is internationally recognized as fundamental to combatting the climate crisis. The installation of heat pumps in conjunction with ultralow temperature district heating and cooling systems, also known as 5GDHC, offer a way forward. Such



projects support the large-scale energy transformation in dense urban areas for both new builds and retrofits. For the peak capacity demand hours, heat pumps connected to the grid can supply buildings with 70 C, making it easier to replace gas.

[Read more >](#)

ClimaCheck International Training Stockholm 5-6 May 2022

Use this opportunity to meet experts from all over the world and share knowledge and experiences in optimisation, predictive maintenance, and troubleshooting. During the two days you will have the chance to improve your skills in energy optimisation and predictive maintenance with the help of ClimaCheck. Last day to register to the training is 15 of March! [More Information](#)

AC and compressor prices in China increasing in 2022

For 2022, many compressor manufacturers preannounced at the end of last year price increases of 3 to 5 %, which were less pronounced than in 2021. Several air conditioner manufacturers followed suit and issued further price increase notices at the beginning of 2022,

