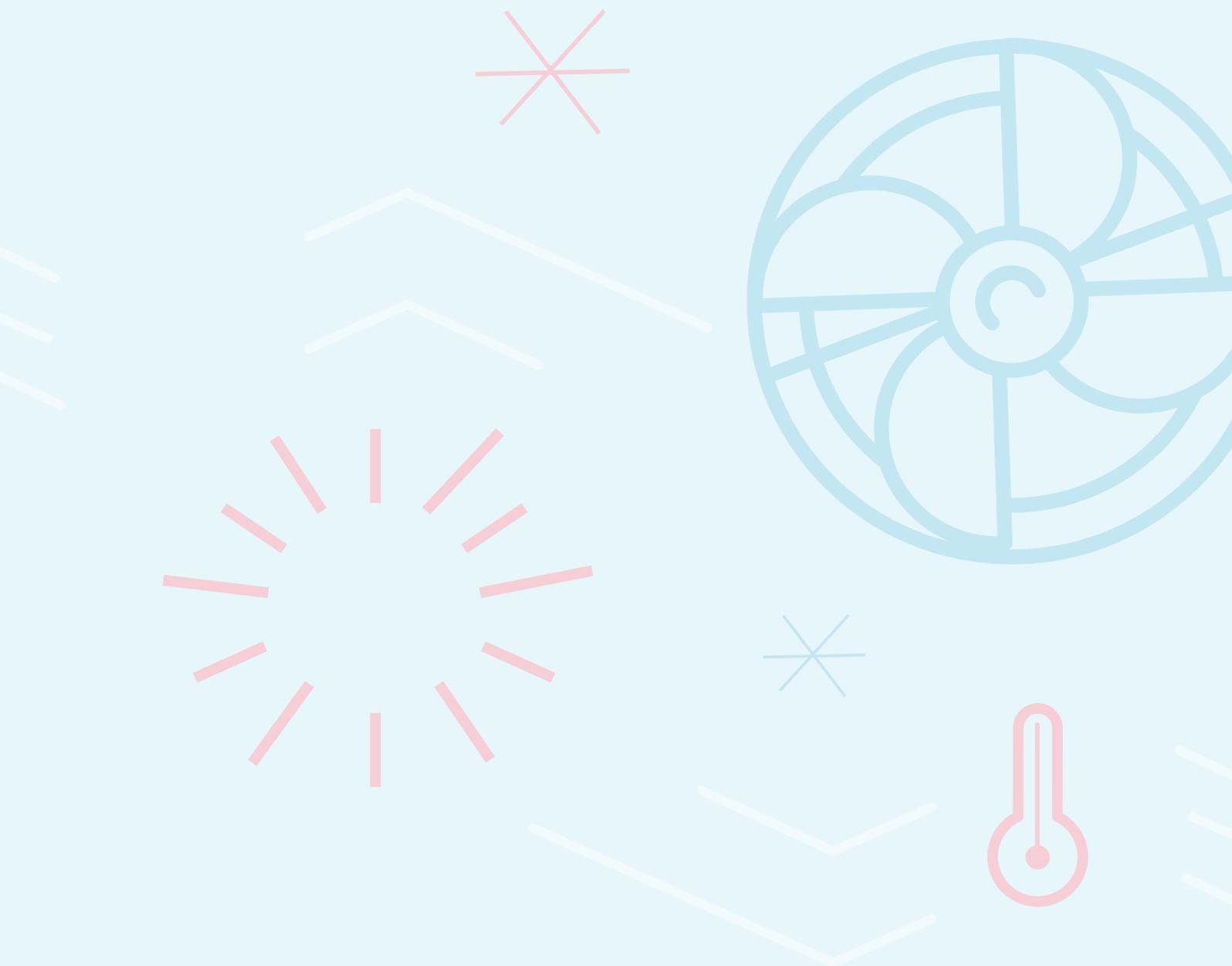




Annual Report

2019

THE EUROPEAN VOICE OF REFRIGERATION,
AIR CONDITIONING AND HEAT PUMP CONTRACTORS



About AREA

AREA is the European association of refrigeration, air conditioning and heat pump contractors. Contractors are the essential link between end users and manufacturers. They design, install and maintain refrigeration, air conditioning and heat pump equipment using every available solution with complete neutrality towards equipment and refrigerants, in the sole aim of ensuring the highest level of reliability, energy efficiency and cost-effectiveness.

AREA in a nutshell



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Foreword by the President



“

Now, more than ever, we understand how important and essential our sector is for modern life.

Today we are experiencing something unexpected and unforeseen. Now, more than ever, we understand how important and essential our sector is for modern life.

Cooling is critical to fulfil the most immediate needs of European citizens in preserving food and medicines, providing thermal comfort in hospitals and homes, keeping data centres running, and much more. In this context, refrigeration, air conditioning and heat pump contractors, represented by AREA, play an essential role by ensuring the maintenance, repair and overall efficient functioning of refrigeration and cooling systems. They allow the cold chain to operate and the internet to function, and they support healthcare.

2019 was an intense and satisfying year, particularly as we developed and renewed our vision for the future. Outlined in the AREA Vision 2025, it notably underlines the importance of the sector.

We are extremely enthusiastic about the reorganisation of AREA's working structure, in accordance with our Vision 2025, which outlines the strategic imperatives for a successful European RACHP contracting sector. This reorganisation compliments the four pillars of our vision and reflects the increased demand for cooling in our daily life. This is relevant not just in Europe but also in looking at international developments in refrigerants, sustainable cooling, technological developments, and attracting, retaining, and upskilling personnel.

In 2019, during MOP31 (the conference of the signatory parties of the Montreal Protocol), held in Rome in November, AREA took an active role, both organising several events and signing a Memorandum of Understanding with United Nations Environment Programme OzonAction – UNEP. This was a key moment that sealed cooperation with UNEP which has been ongoing since 2005. Our involvement in MOP31 also saw several crucial moments that have led to new contacts and new coopera-

tion opportunities with the most relevant associations, institutions, and policy makers not only in Europe but worldwide.

We had the opportunity to present three projects in which AREA is not only taking part in but is taking the lead and moving to increase competencies in the sector due to crucial and steady technological developments. These projects include the REAL Alternatives 4 LIFE project, the Universal Training Kit for Alternative Refrigerants, and the Refrigerant Driving Licence.

The Memorandum of Understanding, signed during MOP31, is going to formalise and deepen the cooperation between AREA and UNEP, a reminder of the commitment that both our organisations are gladly taking in order to achieve more sustainable cooling for a healthier environment and another great example of strengthened global cooperation through training, conferences and sharing expertise in guidance related to the recent transition to low GWP refrigerants.

AREA's work is going to become increasingly valuable while we continue promoting and organising topical events, releasing international publications, guidelines, and projects, and establishing new contacts and partnerships.

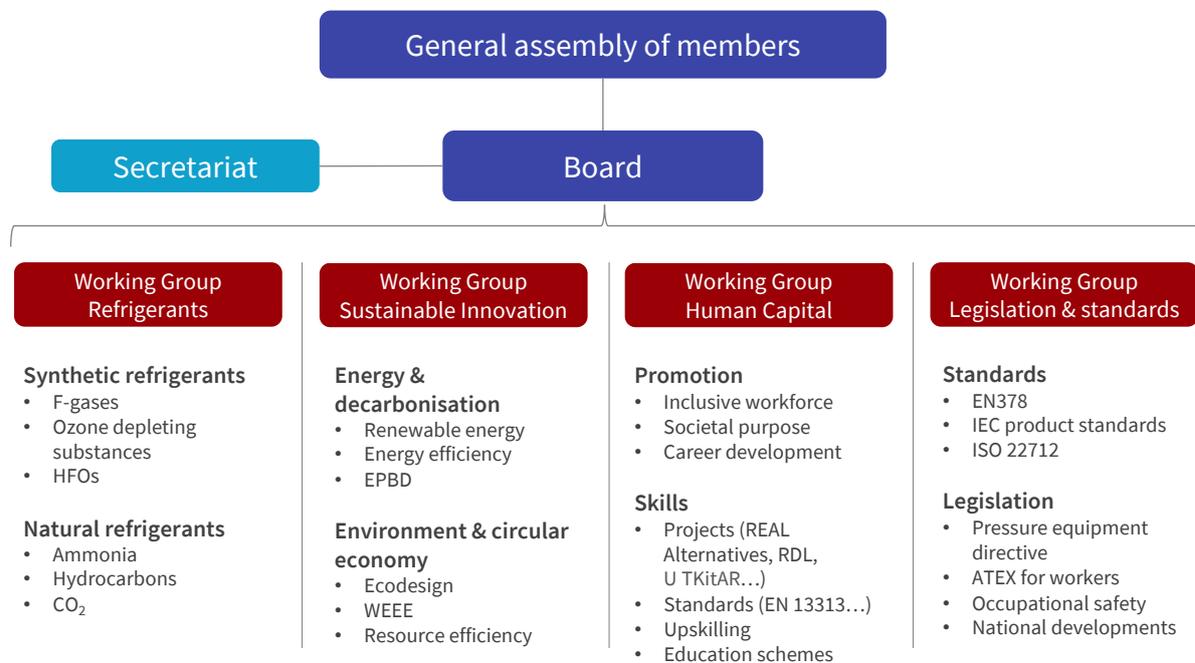
Now more than ever, AREA will continue to work at international level to build on its work to curb greenhouse gas emissions and improve the energy efficiency of the RACHP systems. While doing so we also recognise that this year, in 2020, a new unexpected priority has come into our lives and we acknowledge that cooling has a prominent role to play in the safeguard of humanity. Our Members, alongside their members, the RAC contractors, are ready to take this active role.

Thank you.

Marco Buoni, President

Organisation

Working bodies



In 2019, AREA restructured its working activities in order to adapt to the key pillars of focus identified in the AREA Vision 2025. Four working groups now represent the four strategic principles of the vision, thus replacing the existing task forces.

Chairs and Vice-Chairs are nominated per group, alongside Sherpas whose role is to maintain the link with the Board.

Working Groups

Refrigerants

Chair/Sherpa: Graeme Fox (BEASA, UK)

Vice-Chair: Martyn Cooper (FETA, UK)

Sustainable Innovation

Chair: Seamus Kerr (IRI, Ireland)

Vice-Chair: José Riberio (APIRAC, Portugal)

Sherpa: Gregorz Michalski (KFCH, Portugal)

Human Capital

Chair: Thanos Biris (HUGFAS, Greece)

Vice-Chair: Stepan Stojanow (SCHKT, Czech Republic)

Sherpa: Marco Buoni (ATF, Italy)

Legislation and Standards

Chair: Mika Kapanen (FREA, Finland)

Vice-Chair: Imre Soorand (EKL, Estonia)

Sherpa: Gerhard Neuhauser (ÖKKV, Austria)

Board of Directors

- Marco Buoni (ATF, Italy), President
- Gerhard Neuhauser (ÖKKV, Austria), Vice-President

- Per Jonasson (KYL, Sweden), Past President
- Grzegorz Michalski (KFCh, Poland), Board Member
- Graeme Fox (BESA, UK), Board Member
- Stig Rath (VKE, Norway), Treasurer

Internal Affairs



Cooperation with UNEP

In early November 2019, closely following MOP31, AREA and the UN Environment Programme (UNEP) took steps to strengthen their cooperation through signing a Memorandum of Understanding (MoU). While already working together on various topics, the signing of the MoU further illustrates the commitment from both organisations.

While Europe has the highest level of requirement in terms of RACHP installer' competence, AREA is keen to share its own expertise. In this light, the partnership with UNEP materialised in various fora and events such as the ECA Network (Regional Ozone Network for Europe and Central Asia).

AREA and UNEP together developed a Universal Training Kit which was launched in Rome on 6 November 2019. Designed as a modular training programme, it is adaptable to accommodate various types of courses delivered in training institutes in developing countries. The kit covers all aspects of the safe management of refrigerants, including dealing with conventional and flammable refrigerants, and will allow training centres to design and build training courses with the preferred length, content, and audience through a dedicated portal.

As UNEP fosters ties with key industry stakeholders and experts from the HVACR community, AREA gladly continues to help achieve the objectives of providing support and services to developing countries within the context of meeting commitments of the Montreal Protocol.

AREA Vision 2025

The refrigeration, air conditioning and heat pump contracting sector has been, and will continue to undergo, profound changes driven by four main characteristics including increased demand for cooling, sustainable cooling, technological developments and attracting, retaining, and upskilling personnel.

Recognising how cooling is essential to modern life and has become critical to people's wellbeing, especially in the face of climate change and digital transformation, the [AREA Vision 2025](#) presented its strategic vision for the European refrigeration, air condition and heat pump contracting industry for the next five years on 10 October 2019, as a new EU political cycle began.

Following on from the Vision 2020 presented in 2014, it consists of four key pillars:

Refrigerants: succeeding in the transition towards alternative refrigerants

Sustainable innovation: supporting energy and resource efficiency principles in a lifecycle approach

Human capital: supporting members in attracting and retaining skilled personnel

Framework conditions: promoting a coherent and supportive regulatory and standardisation framework

These pillars serve as overarching strategic imperatives that will guide AREA's activities through the next five years. To ensure consistency, as detailed previously, AREA also restructured the organisation with the creation of four working groups reflecting the key pillars of the vision.

In doing so, AREA is well equipped and positioned to take on the challenges ahead alongside other industry stakeholders and decision-makers at international, European, and national levels.



Working Groups

Refrigerants

On the F-gas front, in continuity of 2018, illegal trade remained high on our agenda. Besides our advocacy towards the European Commission, and with the purpose of helping operators in the sector to recognise illegal refrigerants, AREA, together with ASERCOM, EFCTC and EPEE, published a leaflet that gives a brief overview on the key criteria to distinguish safe sources from illegal ones. The leaflet explains how to identify illegal refrigerants and the risks resulting from their purchase, simple steps to ensure the refrigerants are safe, and information on how to report on suspicious activities. Thanks mostly to our members, it is now available in fourteen languages.

HFC prices continued to decrease throughout 2019, though the decline slowed down in the fourth quarter. Despite this decrease, they remain four to six times higher than before the start of the price increase in 2017. This fact, and the difficulties it creates for our contractors, will certainly be among the issues to be discussed within AREA in preparation for the review of the F-Gas Regulation that we expect to start in 2020. The European Commission has brought the timeline forward as a result of their new environmental ambitions expressed in the Green Deal.

2019 concluded with the establishment of Refrigerants Working Group, which merges the F-Gas Task Force and the Low GWP's Task Force. Established with the aim of "succeeding in the transition towards alternative refrigerants" the working group illustrates the need to look at refrigerants in a holistic manner. This has become necessary to reflect our contractors' market realities and the view AREA will have to take during the revision of the F-Gas Regulation.

Finally, last year the evaluation of the Regulation 1005/2009 on substances that deplete the ozone layer was concluded. In line with AREA's contribution, the European Commission considered that the objectives of the regulation have been effectively achieved, that the regulation complements the obligations of the Montreal

Protocol and that it is important to keep it in place. A proposal for a, hopefully light, revision is expected in 2021.

Sustainable Innovation

During the Autumn General Assembly, the former Energy Task Force was transformed into the Sustainable Innovation Working Group in order to align with the new working priorities defined in the AREA Vision 2025. In addition to addressing energy efficiency issues, the scope of the group has been expanded to encompass the broader decarbonisation agenda and sustainability initiatives under the Circular Economy. Seamus Kerr, from the Irish Refrigeration Institute, was elected as Chair of the working group. He will lead the activities of the group with the cooperation of the Vice-Chair, Jose Manuel Ribeiro, from the Portuguese association APIRAC.

In 2019, AREA published a joint guide with EPEE on the implementation of the Energy Performance of Buildings Directive. Within these guidelines, there are detailed recommendations on key issues including the requirements for technical building systems and inspections for heating and cooling systems. In addition to the implementation, the group has closely monitored developments on the Smart Readiness Indicator. This new label will reflect the availability of smart services in buildings. In certain countries where this scheme will be taken up, AREA members may be the ones issuing the ratings for buildings. Thus, in certain countries this work may make a positive contribution to business.

The working group has also closely monitored the discussions at European level on the 2050 long-term decarbonisation strategy and the National Energy and Climate Plans. In view of improving the sustainability of refrigeration systems, the working group has also been active in the updating of the AREA App to include the TEWI calculations.

AREA has always been a strong supporter of introducing measures to improve Indoor Environmental Quality (IEQ). During the last months, activities on this issue

were also revamped. AREA joined an informal platform on IEQ together with several other European trade associations interested and involved in the topic. The platform is currently working on a new joint manifesto on IEQ which is planned to be presented in June during the EU Energy Sustainable Week. There, an ad hoc session on IEQ will be addressed during the policy workshop on “Buildings as Green Deal Heroes: Delivering on Climate, Circularity and Wellbeing”.

Human Capital

As part of the new AREA Vision 2025 and the reflecting structural changes, the Skills Task Force has been renamed the Human Capital Working Group. During the annual General Assembly of November 2019, Thanos Biris from the Greek association HUFGAS was elected Chair of the working group, whereas Stepan Stojanov from the Czech Republic association SCHKT was elected Vice-Chair.

Over the last months, the working group was active in both upgrading the framework competences of RACHP installers as well as in promoting the professional opportunities the sector offers. The working group has participated in the Eurostat Consultation on the revision of the NACE code system, where we have asked to repatriate all the RACHP services under code 33 (repair and installation of machinery). Based on the feedback received, the drafting of the reviewed NACE structure is now expected by the end of 2020. Still very active on competences, we are also contributing to the revision of the ESCO (European Classification of Skills, Competences, Qualifications and Occupations) Community, notably to have the definition of Refrigeration Air Condition and Heat Pump technician included in the classification.

The working group undertook several initiatives at national and European level to promote and raise the visibility and the opportunities offered by the cooling sector. In particular, Stig Rath represented AREA at the

EUREKA 2019 conference held in Bruges on 11 - 12 June 2019, where he took part in the panel discussion “The missing link – skills and gender diversity”.

The Human Capital Working Group warmly thanks Mr. Rath for all the hard work and commitment demonstrated during the years he served as Chair of the Skills Task Force.

Legislation and Standards

During the Autumn General Assembly, the former Pressure Equipment Directive Task Force and Information Group were transformed into the Legislation and Standards Working Group. The group now covers ongoing developments on relevant standards for installers of the refrigeration industry and internal market legislation such as the Pressure Equipment Directive, the ATEX Directive and measures covering occupational safety. Mika Kapanen (Finnish Refrigeration Enterprises Association) and Imre Soorand (Estonian Refrigeration Association) were elected as the Chair and Vice-Chair of the group respectively.

In July, the group published a booklet “Introduction to refrigeration standard EN 378”. The European Standard EN 378 covers the safety and environmental requirements for the design, manufacturing, construction, installation, operation, maintenance, repair and disposal of refrigerating systems and heat pumps. The booklet seeks to introduce refrigeration, air conditioning and heat pump contractors to this standard and to assist them in promoting best practice in their activities.

In addition, the working group serves as a platform for the members to monitor European and international initiatives on standards. Particularly, we have been following up the developments of the EN ISO 22712 (formerly EN 13313) standard, which sets the minimum competence requirements of personnel for refrigerating systems and heat pumps.

Events

3 – 4 May 2019: General Assembly in Bratislava, Slovakia

More than 30 members attended the spring meeting that took place on 3 – 4 May. Representatives of the Hungarian Association HRACA and REAL Alternatives 4 LIFE project coordinator, Raluca Sisiu, also attended the event as guests.

During this meeting members adopted an outline, the results of a brainstorm meeting by the Board, of the AREA Strategic Vision 2025 and were presented with



a proposal for a new working structure that would be aligned with the four pillars of the vision. Following constructive feedback, the launch date was confirmed for 10 October, the day before the autumn General Assembly on the 11 October.



10 – 11 October 2019: General Assembly in Brussels, Belgium

The official launch of the AREA vision 2025 was celebrated with a cocktail on the 10 October during which AREA President, Marco Buoni, presented the Vision alongside Bente Tranholm-Schwarz, Deputy Head of Unit Transport and Ozone at the European Commission's DG CLIMA and Carlo Fidanza, Member of the Eu-

ropean Parliament.

The following day saw the formal introduction of the new working structure and the new working groups were officially established alongside Chairs, Vice-Chairs and Sherpas. The Board Nominations Task Force was also introduced with the goal to make proposals to members on the composition of the next Board for the term 2020 – 2022. Including a tour-de-table presenting national developments, members also confirmed participation once more at Chillventa 2020.



18 – 19 February 2019: 2^o meeting of the United Nations Environment OzonAction

AREA President, Marco Buoni, participated in the second global network meeting from 18 – 19 February, taking part in three events during the conference. Firstly, in expert sessions exploring training and certifications to support the implementation of the next stage of the phase-down of refrigerants moving to low GWP refrigerants. These are often flammable and therefore require a training and certifications scheme for technicians. Further highlighting the importance of training, Mr Buoni then also participated in a second meeting where he presented the Universal Training Kit for Alternative Refrigerants. This kit comprises training on alternative refrigerants with manuals, presentations, syllabus, curriculum, an instructor's guide, and minimum requirements for equipment. Finally, the AREA President took part in the European and Central Asia Network meeting and presented the REAL Alternatives 4 LIFE project. Following this, Armenia and Albania requested to join the project.

20 – 22 February 2019: Refrigera

This was the first Italian event exclusively dedicated to the entire supply chain of industrial, commercial and logistics refrigeration sectors. Supported by Associazione Tecnici del Freddo, Assofrigoristi, ASERCOM and Eurovent, AREA's President participated in several side events.



In particular, Mr Buoni took part in the conference “New Refrigerants and Technologies for New and Existing Systems” alongside Riccardo Savigliano of the United Nations UNIDO and Niccolò Constantini of the European Commission.



6-7 June 2019: 18th European Conference “The Latest Technology in Refrigeration and Air Conditioning”

Taking place in Milan from 6 -7 June, a record 300 delegates took part in the 18th European Conference. Established thirty-seven years ago, the event is co-organised by Centro Studi Calileo with the prestigious collaboration of United Nations Environment (UNEP) and

the International Institute of Refrigeration (IIR) under the auspices of the Italian Ministry for the Environment. Conclusions reached by AREA, UNEP and IIR found that such synergy and harmonious collaboration among all the relevant actors is fundamental to recognise the 2030 Agenda as an achievable target. Such objectives have been established by the United Nations Sustainable Development Goals (SDG’s) of which seventeen goals include “affordable and clean energy, industry innovation and infrastructure, climate action” to which manufacturers, producers, contractors and all other major players will follow and adapt.

11 – 12 June 2019: EUREKA Conference

On 11 - 12 June, AREA took part in EUREKA Conference in Bruges, Brussels under the theme “How can the HVAC-R industry contribute to achieving the Sustainable development Goals?” President of AREA, Marco Buoni, presented key take aways from the 18th European Conference “The Latest Technology in Refrigeration and Air Conditioning” held the week before in Milan, addressing “the need for sustainable technology and innovation for the SDG’s” while AREA Treasurer and Task Force Chairman, Stig Rath, took part in a panel discussion on “The Missing Link – Skills and Gender Diversity”. Mr. Rath used his experiences from his job as Technical Director of Refrigeration in VKE to discuss

how the male-dominated refrigeration industry can attract female applicants. While other panellists were keen to see more women in projects, sales, and top management as well as fairs and conferences, Mr. Rath highlighted that what most of the industry needs are more refrigeration technicians.



Projects

REAL Alternatives 4 LIFE

For the third year in a row, AREA was actively involved in the EU Funded Project, REAL Alternatives 4 LIFE. The project, funded by the EU's instrument for the environment and climate action LIFE Programme, is composed of a Consortium of eight European partners including European and International organisations, training centres and universities.

REAL Alternatives 4 LIFE aims at producing new learning materials and practical training programmes for RACHP technicians. The ambitious objective is to extend awareness of the use of alternative refrigerants with low GWP (such as flammables, carbon dioxide and ammonia) across Europe as well as to upskill technicians in handling these alternatives in a safe, efficient, and reliable manner.

Moreover, it aims to produce training resources that can be replicated throughout the EU and beyond through the training and licensing of training providers who can deliver practical courses based on these materials, ensuring long term sustainability and replicability of the project results.

This year, the project booklets were translated into three new languages, making them now available in seventeen languages. New designated stakeholders and national lead organisations joined the project by providing trainings and courses to technicians. In total, the project



With contribution of the LIFE programme of the European Union

grew to seven designated stakeholders and six national lead organisations whose activities are coordinated by the project partners.

Together with online and practical training sessions over the last 12 months, the project was presented during several occasions, conferences, and public events, such as MOP31 and ASHRAE. The project partners and stakeholders met in July 2019 in Casale Monferrato hosted by Centro Studi Galileo, and in November 2019 in Warsaw hosted by Prozon. Additionally, in February 2020 a delegation of REAL Alternatives 4 LIFE had a meeting with DG CLIMA Officials in Brussels. During this meeting, project partners presented the main activities and achievements of the project.

The project will finish in June 2020 and partners are assessing the afterlife phase to maintain some of its activities. Together with the International Institute of Refrigeration, AREA is responsible for the promotion of the project and the dissemination of its results. In particular, AREA is in charge of the layman report, which is targeted at a non-specialist audience and serves to inform decision makers and non-technical stakeholders about the project objectives and results.

For more information about the project, please visit the website: www.realalternatives.eu



Refrigerant Drivers Licence

The Refrigerant Drivers Licence (RDL) project is starting to deliver real results and is highlighting the disparity across the globe in levels of technician ability and awareness, demonstrating the enormous value that this project has for the future of the entire RACHP sector.

As a reminder of the background and purpose of the project, the phase down of high GWP refrigerants under the Kigali Amendment to the Montreal Protocol will necessitate the widespread use of some flammable or toxic next generation refrigerants and there is a real risk to both technicians and consumers if the workforce is not trained and ready to deal with these factors at a global level. In 2014, AREA and UNEP discussed what we could do about addressing these issues and the AHRI (the Air Conditioning, Heating and Refrigeration Institute) took on the role of secretariat to drive the project forward. In the time since then, we have built a global consensus on the minimum level of technical competence necessary to prepare for the next generation of refrigerants, we have developed the training courses and materials, and the most recent activity was to “train the trainers” in six UN Article 5 countries.

Six UN Article 5 countries volunteered to take part in the pilot programme to implement and test the RDL training: Grenada, The Maldives, Rwanda, Sri Lanka, Suriname, and Trinidad and Tobago. Over the past six months we have had a selection of UN Master Trainers visiting the pilot countries and putting the trainers from those coun-

tries through the three day training and testing course to evaluate how ready they are to roll out the training to the wider workforce.

The results of these first sessions are shown in the table below. They demonstrate two main things of note:

Firstly, no country had a 100% pass rate which demonstrates that we did not set the bar too low. If everybody passed, then questions would be raised about the robustness of the training and testing.

Secondly, that huge variances in ability are evident across the globe with a 75% pass rate in Grenada but 0% in Rwanda and only 11% in Suriname. Which begs the question, if this is the level of the trainers then what level of ability are those being trained by these trainers at the moment?

What is not in question now is how valuable this project will be in addressing the skills gap across the globe.

Some concerns were raised in a meeting regarding language difficulties and comprehension where the training was possibly delivered in a second language to some of the trainers. These trainers may have good grasp of conversational English but struggled to comprehend some of the technical terminology used in the training materials. The team are now looking at producing some comprehension guidance and then we will re-run the train the trainer sessions where necessary.

Those trainers who passed are currently running training courses for the technicians in the pilot countries.

Pilot Country	Passed (to become a Trainer)	Attempted	Average Theoretical Exam Score (points)	Average Practical Exam Score (points)
Grenada	6	8	77	97
The Maldives	2	11	66	91
Rwanda	0	11	55	92
Sri Lanka	5	14	64	95
Suriname	2	18	66	99
Trinidad & Tobago	5	16	67	99



U TKitAR

UNEP and AREA have enjoyed a long period of strategic cooperation in providing information materials and guidance, as well as disseminating information, organising joint events, and exchanging expertise with technicians in developing countries, specifically in the Refrigeration Serving Sector (RSS).

The objective of this project which began 2018, is to design a specialised “Universal Training Kit on Alternative Refrigerants”. The aim is to offer state-of-the-art information and knowledge about best practices and techniques in managing and handling future, mainly flammable, refrigerants in a sound and safe manner by different stakeholders of the RSS sectors.

The Universal Training Kit is a multi-stage, joint project between UNEP and AREA and includes the following main modules:

- General Module (environmental, identification and safe handling of refrigerants including standards and policy aspects)
- Managing Hydrocarbons in different applications
- Managing HFCs/HFOs Blends in different applications
- Maximising Energy Efficiency in Servicing and Managing RAC Applications
- Special Kit for Ammonia uses and applications (later stage)
- Special Kit for Carbon Dioxide uses and applications (later stage)

The kit is designed to address the training needs for different applications (domestic, commercial refrigeration and air-conditioning) as well as different stakeholders i.e. trainers, service technicians, operators, etc. providing a full package of resources that can be easily used by the respective National Ozone Units (NOUs), Governments, training institutes and related industry or engineering associations/societies.

The content of each module will be as comprehensive as

it includes the following:

- Pre-Assessment test (to be taken before the training start)
- Post training assessment
- Venue requirements for training (equipment, tools, aids, consumables, etc.)
- Instructors minimum qualification
- Guide for the instructor
- Checklists and procedures to start and hold a training course
- Supporting syllabus, textbook, manuals, tables, charts
- PowerPoint presentations for instructors
- Hand-out material for the attendees

The development of this kit is made into stages in order to test its content and ensure its usefulness and applicability for use in different training institutes in Article-5 countries.

The kit is also propaedeutic to the certification called the Refrigerant Driving License in which AREA is also an active partner.

At MOP31 in Rome in November, during the UNEP Ozon-Action and AREA joint side-event, and benefiting from EU experience in training programmes for the refrigeration servicing sector, the two organisations launched the Universal Training Kit which is designed as a modular training programme. It is also adaptable to accommodate different types of courses delivered by training institutes and centres in developing countries.

The kit covers all aspects of sound and safe management of refrigerants including dealing with conventional and flammable refrigerants. The tool will allow training centres to design and build training courses with the preferred length, content, and target audience. A dedicated web-based portal is designed to assist users to build their preferred courses.

The pilot stage is due in 2020 with a number of countries already volunteering to participate.

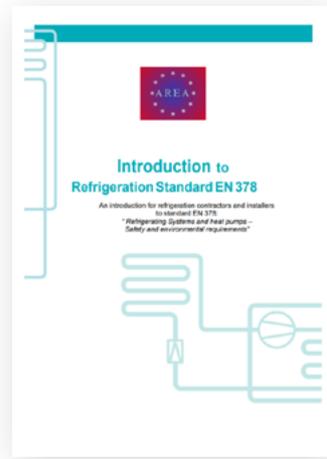
Publications



JUNE 2019
**Guidelines on EP
 June 2019: EPBD
 Implementation
 Guidelines**



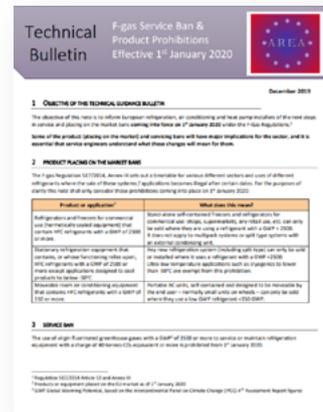
JULY 2019
**Protect your
 business – buy
 refrigerants from
 safe sources!**



JULY 2019
**Introduction
 to refrigeration
 standards EN 378**



OCTOBER 2019
**AREA Vision
 2025**



DECEMBER 2019
**AREA Technical Bulletin
 Bans 2020**

All publications can be downloaded at: <http://area-eur.be/publications>

Members

AUSTRIA


www.oekkv.at

BELGIUM


www.frixis.be

CROATIA


www.hurkt.hr

CZECH REPUBLIC


www.chlazenici.cz

DENMARK


www.koeleteknik.dk

ESTONIA


www.kylmaliit.ee

FINLAND


www.skll.fi

FRANCE


www.snefcca.com

GERMANY


www.biv-kaelte.de

GERMANY


www.vdkf.de

GREECE


hufgas.gr/el-gr

IRELAND


www.instituteofrefrigerationireland.ie

ITALY



www.assofrigoristi.it

ITALY



www.associazioneatf.org

NETHERLANDS



www.nvkl.nl

NORWAY



www.vke.no

POLAND



www.kfch.pl

PORTUGAL



www.apirac.pt

SLOVAKIA



www.szchkt.org

SPAIN



www.aefyt.es

SPAIN



www.cni-instaladores.com

SWEDEN



www.skvp.se

TURKEY



www.sosiad.org.tr

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