

KEMENTERIAN SUMBER ASLI, ALAM SEKITAR
DAN PERUBAHAN IKLIM
MINISTRY OF NATURAL RESOURCES, ENVIRONMENT AND CLIMATE CHANGE



2021

OZONE

BULLETIN



**MONTREAL PROTOCOL
KEEPING US, OUR FOOD AND VACCINES COOL**

Ozone Protection Section

NEWS

EVENTS

COURSE

Webinar Refresher Course for Master Trainers of CSTP Program in Refrigeration and Air Conditioning Sectors (RACS)



9 April 2021
Online

Mesyuarat Verifikasi Data Import / Eksport Bahan Pemusnah Ozon Tahun 2020

30 April 2021
Online

Consultative Meeting for Foam Sector

30 June 2021
Online

The Regional Workshop for Asia and the Pacific Delivering Energy Efficient and Climate Friendly Cooling through National Cooling Action Plans

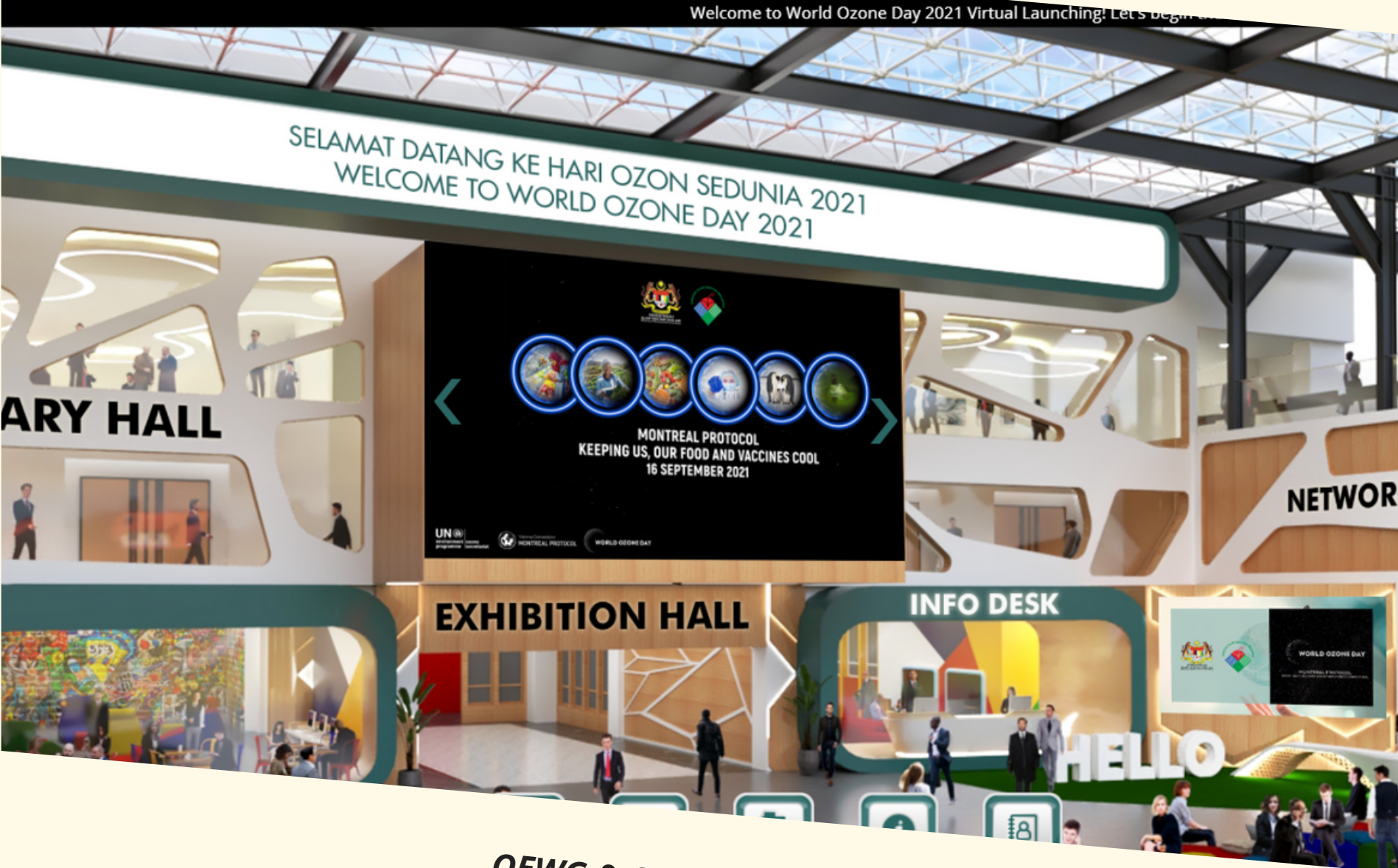
18 August 2021
Online

Bengkel Stakeholders Consultation on National Strategy of HCFC Phase and Rome Declaration

29 September 2021
Online

National Celebration of World Ozone Day

National Celebration of World Ozone Day - Virtual Platform Main Lobby



OEWG & COP12 MOP33



National Celebration of World Ozone Day - Opening Remark by Minister of Environment and Water



1-5 October 2021
Online

Kursus Kawalan Bahan Pemusnah Ozon Siri 1/2021 - JAS & JKDM

12 October 2021
Online

Refresher course for Master Trainers of Certified Service Technician Programme (CSTP) in Refrigeration and Air Conditioning Sector

12 October 2021
Online

Foam Conversion Project Under the HPMP Stage II

29 October 2021
Online

OEWG & COP12 MOP33

15-19 November 2020
Everly Hotel, Putrajaya

Webinar Refresher Course for Master Trainers of CSTP Program in Refrigeration and Air Conditioning Sectors (RACS)

OEWG & COP12 MOP33



STRENGTHS
2021

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STAKEHOLDERS CONSULTATION

for the National Strategy on HFC Phase-Down with Malaysia Automotive Association (MAA) and Malaysia Fire Protection Association (MFPA)

Malaysia has ratified the Kigali Amendment for the HFC Phase-Down under Montreal Protocol on the 21st of October 2020. In the preparation of the HFC phase-down implementation, the Department of Environment has started consultations with the relevant stakeholders to develop the over-arching National Strategy to phase-down HFC from 2024 to 2045.

DOE with the cooperation of the World Bank team experts have developed strategy options for Malaysia to achieve its target by 2045. The strategy options were formulated based on the HFC consumptions study in Malaysia which was completed in 2019.

30 April 2021

Virtually

A few consultations had been conducted since the year of 2020 with the relevant government agencies and industries. Further consultation was continued on 12th April 2021 with the stakeholders from Mobile Air-Conditioning (MAC) sector and Fire Suppression industries that were involved in using HFC-134A and HFC-23, which are the HFCs that have high global warming potential (GWP). The consultation was chaired by Director of Air Division, Pn. Mashitah Darus. During the consultation, representative from Malaysia Fire Protection Association (MFPA) informed that for the past 5 years, HFC-23 is no longer widely used in the Malaysian market for fire extinguishing systems and the use of this refrigerant can be reduced as proposed by DOE.

Besides that, the stakeholders from MAC sector requested to have an online session with DOE and their group stakeholders regarding the strategy options. The issues raised during the consultation are the available alternative to HFC-134A, which is HFO-1234yf is expensive at the moment. However, Pn Aminah Ali representing the World Bank expert informed that this alternative refrigerant in the coming years will no longer be patented and it will not be expensive.

DOE is in the process of compiling inputs and recommendations received from stakeholders and will develop National Strategy on HFC Phase-Down for approval by the Cabinet. Further consultations with the stakeholders on the strategy will be continued in 2022.



STAKEHOLDER CONSULTATION

on Rome Declaration and National Strategy of HFC Phase-Down Workshop

18 August 2021

Virtually



Rome Declaration was discussed during the 31st meeting of parties to the Montreal Protocol in November 2019. The key objective of this declaration is to provide access to energy-efficient, sustainable refrigeration technologies in developing countries thereby helping them contribute to the reduction of food loss and waste, at the same time reduce greenhouse gas emissions. The Rome Declaration is in line with the Kigali Amendment goal which is to reduce the use of hydrofluorocarbon (HFC) to help reduce the effects of climate change. Kigali Amendment gives cold-chain operators a clear incentive to install low-Global Warming Potential (GWP) refrigerants and provide opportunities to rethink cold-chain strategies to advance business as well as environmental goals.

Malaysia has ratified the Kigali Amendment on 21st October 2020. Malaysia is a party country under the category of Article 5 (Group 1), whereby the compliance period starts in 2024 to 2045. The benefits of Kigali ratifications are trade access with party countries under the Montreal Protocol, financial support under Multilateral Funds, opening up opportunities for local industries to produce more energy-efficient products, flexibility in formulating HFC phase-down strategies and reducing the global temperature increase by 0.5°C in 2100.

The Department of Environment (DOE) had conducted a few consultations with the stakeholders regarding the National Strategy of HFC phase-down prior to this workshop. Therefore, the stakeholders need to be informed for the input and feedback on the updated HFC phase-down strategy. Due to Covid-19 pandemic and Movement Control Order (MCO) the workshop was held virtually via Zoom Meeting on 18th August 2021 with the relevant stakeholders from government agencies, non-governmental organizations (NGOs) and private sectors. The workshop was chaired by Puan Mashitah Darus, the Director of Air Division. The stakeholders were informed that the updated HFC phase-down strategy focuses on HFCs that do not have alternatives yet whereas the HFCs with alternatives will be phased-down gradually. Other issues raised during the workshop are the consideration of mixed HFCs and HFOs so that the industry has a variety of alternative options.

Overall, no other specific issues were raised by the stakeholders regarding national support for the Rome Declaration and the National Strategy of HFC phase-down. DOE took note of the views and suggestions received during the workshop and will take into account these inputs when developing the HFC phase-down plan and strategy.

WORLD OZONE

*Montreal
Keeping Us, Our*

29 September 2021

Virtually

In conjunction with the World Ozone Day, a special announcement has been made by the Honorable Minister of Environment and Water, Dato' Sri Tuan Ibrahim Tuan Man on the 16 September 2021 through the Ministry of Environment and Water website and social media.

The theme for World Ozone Day 2021 was 'Montreal Protocol: Keeping Us, Our Food and Vaccines Cool'. Pursuant to the implementation of the Movement Control Order to prevent the spread of Covid-19 Pandemic, the World Ozone Day 2021 celebration was organized online on 29 September 2021.

The celebration was officiated by YB Dato' Sri Tuan Ibrahim bin Tuan Man, the Minister of Environment and Water. In his inaugural address, the Honorable Minister congratulated Malaysia on achievements in managing the elimination of HCFCs where Malaysia has achieved a reduction of 55.7% in 2020 compared to the target of 35%.

The Honorable Minister also emphasized that the Montreal Protocol helps in reducing the impact of climate change, promotes energy efficiency in the refrigeration sector and contributes to the food security in the country. In conjunction with the celebration, three (3) webinars were held to promote the importance of ozone layer and the implementation of Montreal Protocol in Malaysia.

WEBINAR WORLD OZONE DAY 2021

IMPLEMENTATION OF MONTREAL PROTOCOL IN MALAYSIA - SUCCESS STORY AND ANOTHER MILESTONES TOWARDS OZONE CLIMATES BENEFITS

YBHG. DATO' SERI IR. DR. ZAINI BIN UJANG
PANELIST

NILOY BANERJEE
PANELIST

VIRAJ VITHOONTIEN
PANELIST

MAZRINI BINTI MOHMAD
MODERATOR

SCIENCE AND OZONE LAYER

ASSOC. PROF. DR. LIM HWEE SAN
PANELIST

ASSOC. PROF. DR. JUSTIN SENTIAN
PANELIST

DR. SHAZWIN MAT TAIB
PANELIST

PROF. DR. MOHD TALIB LATIF
MODERATOR

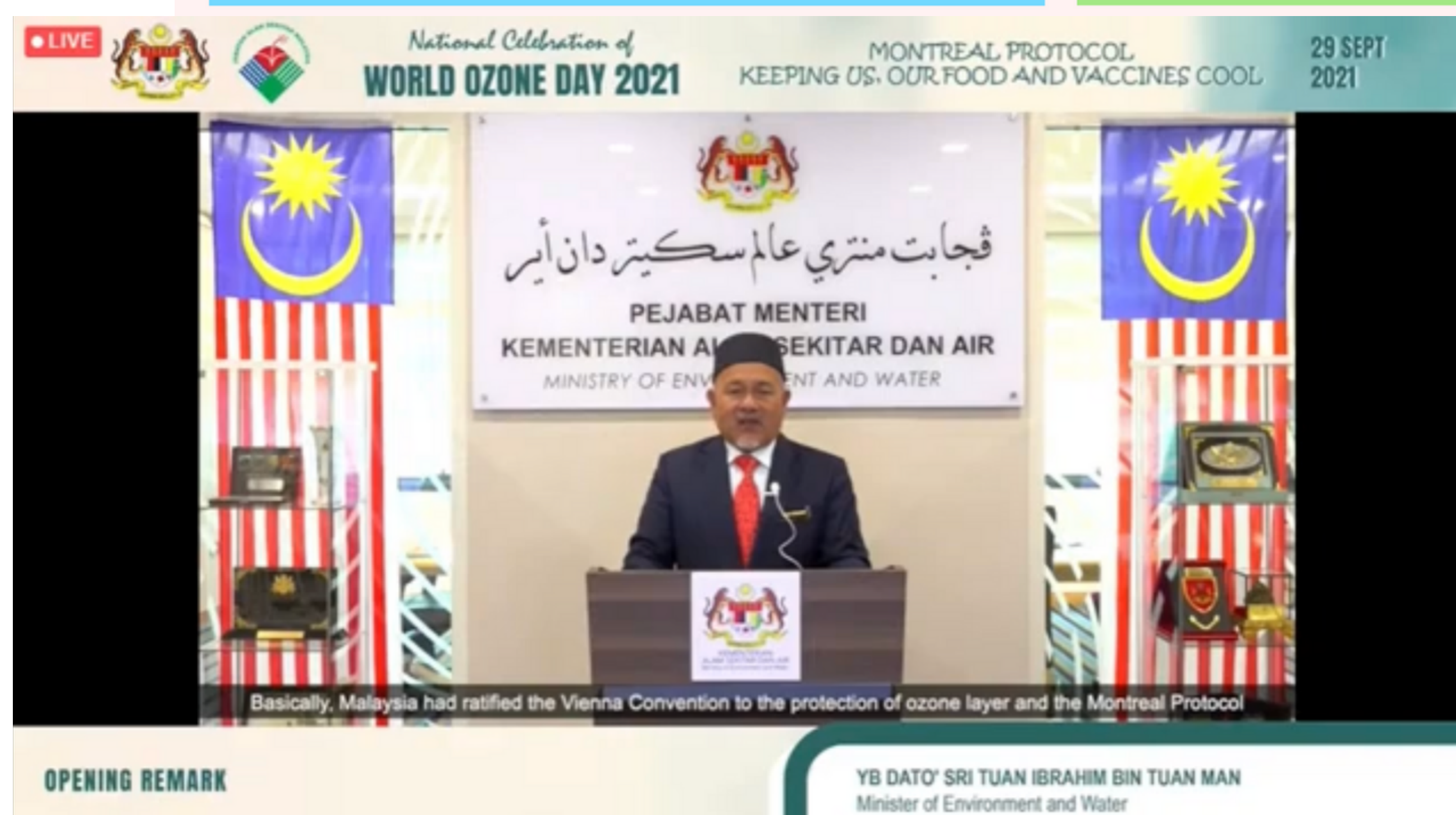
FOAM SECTOR - TECHNOLOGY CHOICE

PAULO ALTOÉ
PANELIST

SEE YAW KOON
PANELIST

WONG SOON KEE
PANELIST

AMY CHARLENE WONG
MODERATOR



WORLD OZONE DAY 2021

Protocol : Food and Vaccines Cool

The whole day virtual events were also filled with activities such as pocket talks, interactive quizzes and virtual exhibitions showcasing the partners in the implementation of Montreal Protocol.

There are 594 participants who joined on the virtual celebration of World Ozone Day. This virtual participants is not only from Malaysia but also attracted participants from other countries such as Indonesia, Thailand, Belgium, Japan and United State of America.



Every year, the World Ozone Day is also celebrated by DOE State offices at the state level to raise awareness among the public on the importance of protecting the ozone layer. More information on the World Ozone Day can be found at <https://worldozoneday.doe.gov.my/> or <https://www.doe.gov.my/>.

National Celebration of WORLD OZONE DAY 2021 | MONTREAL PROTOCOL, KEEPING US, OUR FOOD AND VACCINES COOL | 29 SEPT 2021

IMPLEMENTATION OF MONTREAL PROTOCOL IN MALAYSIA - SUCCESS STORY AND ANOTHER MILESTONE TOWARDS OZONE CLIMATE BENEFITS

MODERATOR: MS. MAZRINI BINI MOHMAD, Principal Assistant Secretary, Environmental Management Division, Ministry of Environment and Water, KASA
SPEAKER: YBHG. DATO' SERI IR. DR. ZAINI BIN UJANG, Secretary General of the Ministry of Environment and Water
SPEAKER: NILOY BANERJEE, UNDP Resident Representative for Malaysia, Singapore and Brunei Darussalam
SPEAKER: VIRAJ VITHOONTIEN, Montreal Protocol Expert

HARI OZON SEDUNIA 2021
 PERINGKAT WILAYAH PERSEKUTUAN KUALA LUMPUR
 MONTREAL PROTOCOL
 22 SEPTEMBER 2020

Manisfm

OZONE

States WOD 2021

CUSTOMS TRAINING PROGRAMME

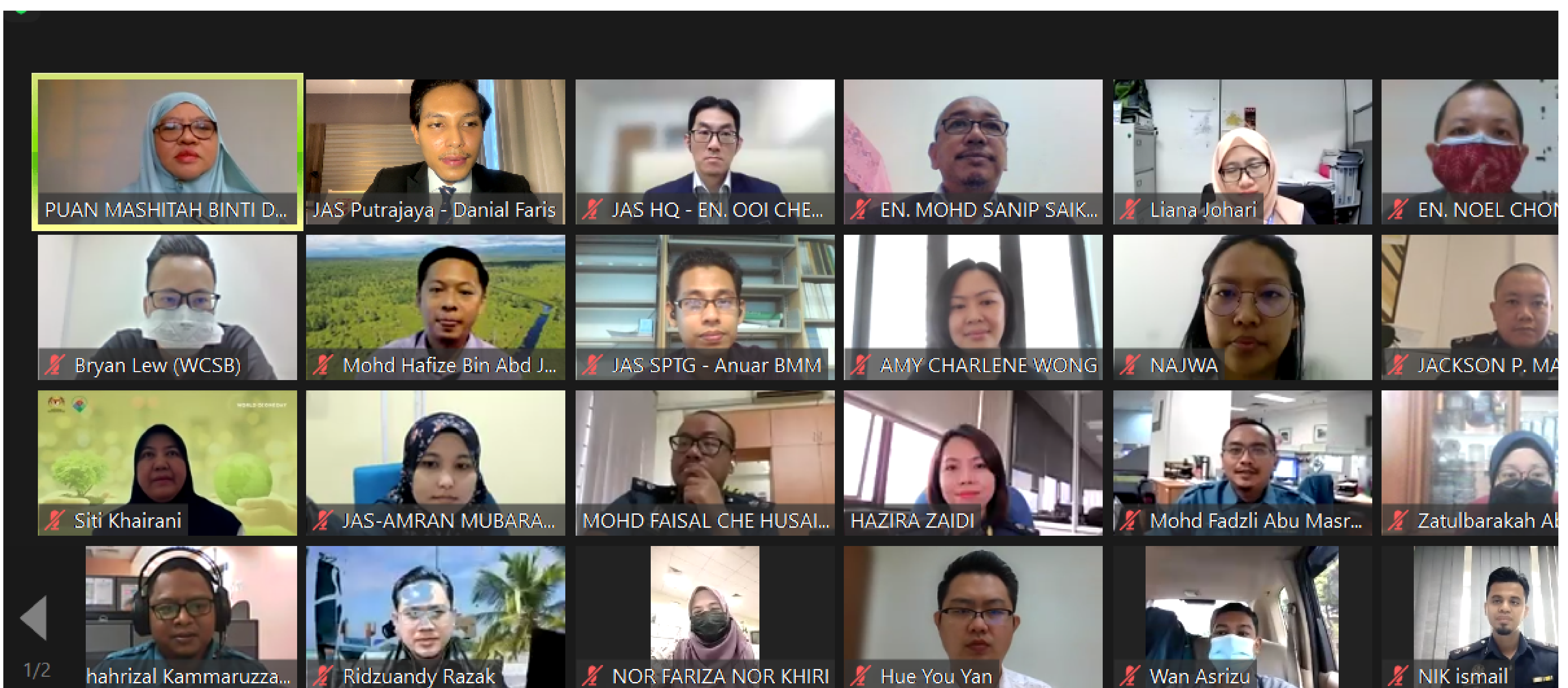
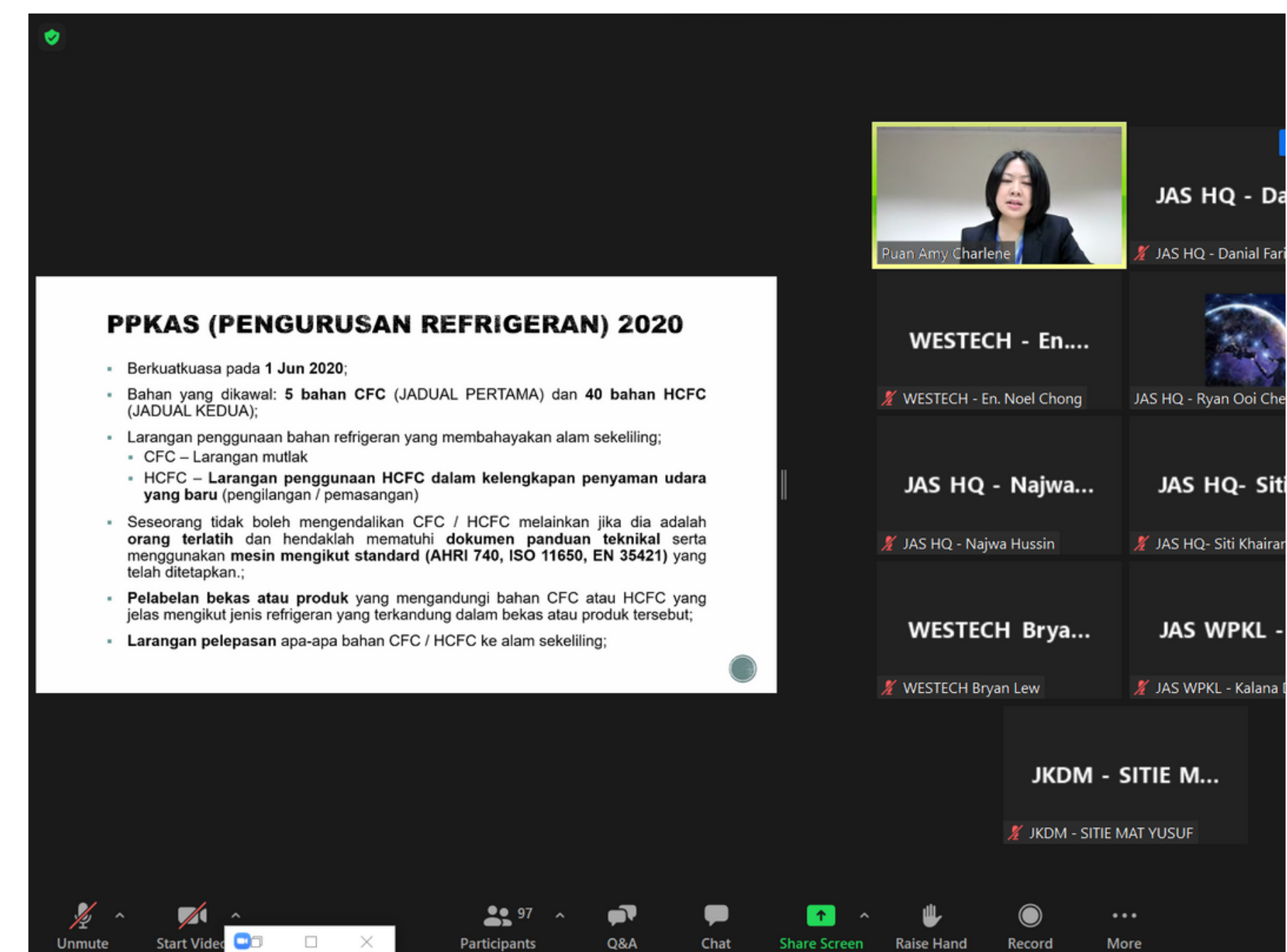
on Ozone Depleting Substances (ODS)

Malaysia has been affected by the Covid-19 pandemic throughout 2021. However, to strengthen the effectiveness of the import control system for ODS, especially HCFC and prevention of the illegal smuggling, the Department of Environment Malaysia (DoE), in collaboration with the Royal Customs Academy Malaysia (AKMAL), organized the virtual training programme from 5 to 7 October 2021. About 90 officers attended the training from Royal Malaysia Customs and DOE state officers

5 - 7 OCTOBER 2021

Virtually

The main objectives of the training were to increase awareness, strengthen the enforcement capacity building of the Royal Customs, enhance knowledge and improve understanding of the control of the import-export of Ozone Depletion Substances (ODS). The programme also aimed to enhance the smart partnership between DoE and the Royal Customs Department. In addition, the training was conducted included a briefing on Reclamation Machine and Refrigerant Identifiers (RI) to familiarise participants with the equipment used. Besides, it is significant in enabling the officers to identify the refrigerants during an on-site inspection at the port entry.

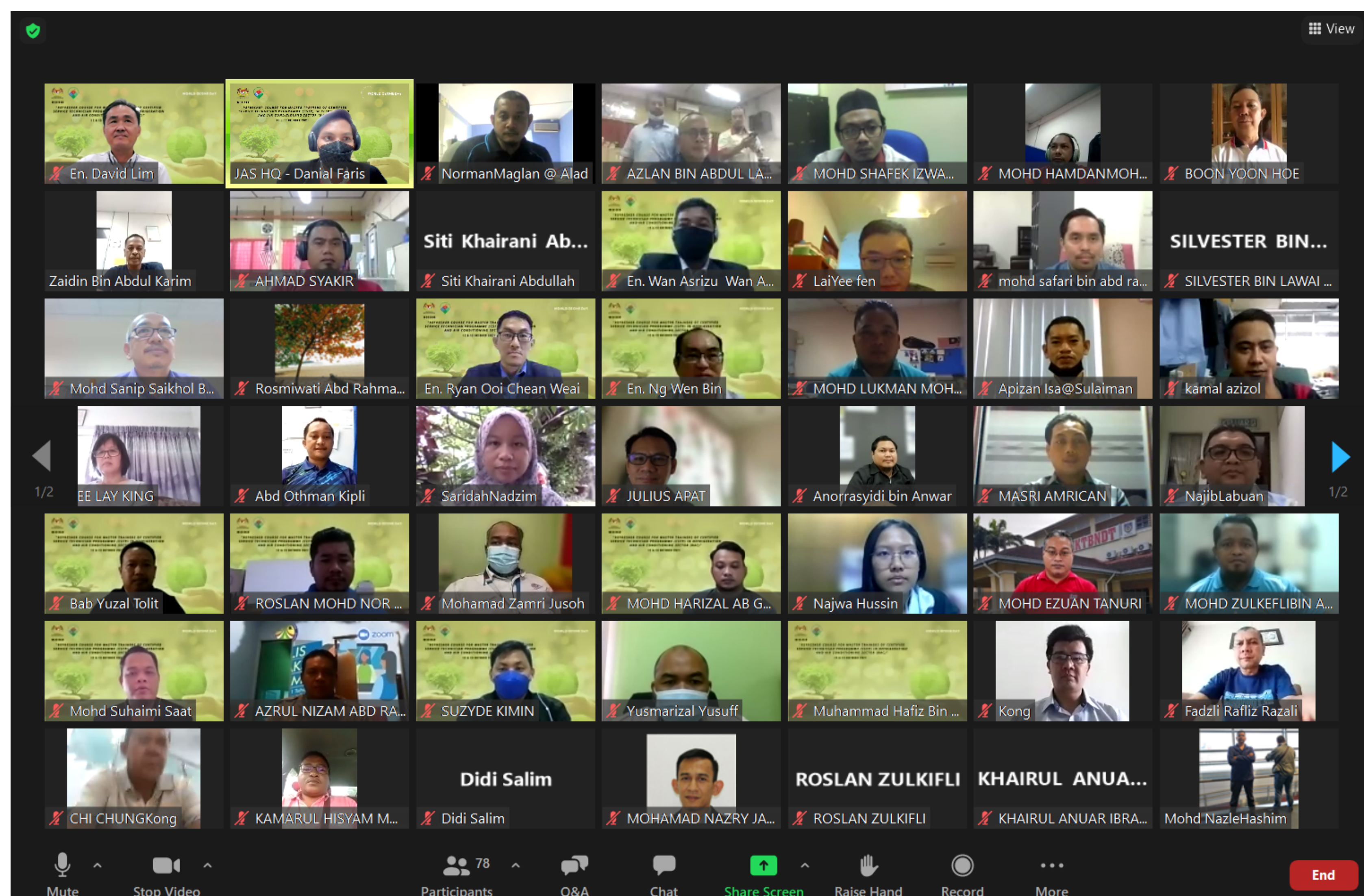


REFRESHER COURSE

for Master Trainers of Certified Service Technician Programme (CSTP) in Refrigeration and Air Conditioning Sector

12 October 2021

Virtually



In 2021, Department of Environment (DOE) had organized one series of training programmes Webinar of Refresher Course for Master Trainers in the Refrigeration & Air-Conditioning Service Sector (RACs) via online. The Master Trainers consisted of trainers or facilitators were tasked to handle the Certified Service Technician Program (CSTP) in the Authorised Training Centre (ATC).

The main objective of the refresher course was to expose and provide assessment to the trainers on the training manual that will be used in the CSTP programme. The assessment involved two components; theoretical assessment consisted of subjective questions and practical assessment consisted of details and thorough checklist of best practice in servicing air-conditioning equipment. Then, the Master Trainer were tasked to educate in applying good practices in Refrigeration & Air-Conditioning Servicing Sector (RACs).

During the webinar training programme, National Ozone Officers (NOO) and identified experts from the RAC sector were invited as speakers. The training emphasized on the good practices and proper handling of the HCFC and HFC refrigerant such as R-22, R-32 and R-410A in air-conditioning equipment which covered technique of recovery & recycling of the HCFC and HFC refrigerant as an effort in reducing the HCFC and HFC consumption and ultimately achieved the target outlined in HPMP.

The webinar training session was held at Department of Environment, Putrajaya on 12th Oktober 2021. The webinar training was attended by 86 participants via online from the 48 ATCs which consisted of government institutes and private company that were equipped with refrigeration and air-conditioning school.

HCFC PHASE-OUT MANAGEMENT PLAN STAGE II (HPMP II)

Webinar PU Foam Conversion Project Under The HCFC Phase Out Management Plan Stage II (HPMP II) and One-to-One Consultation With Foam Expert



12 - 15 October 2021

Virtually

Under HPMP II, the Government, along with other international agencies, has taken proactive measures, including the transfer of technology through the financial mechanism of the Montreal Protocol, technical assistance, and information dissemination to phase out HCFC 141b in the foam sector. In the first phase of HPMP II, ten large foam enterprises successfully converted their technology into the cyclopentane system. As a result, 41.21 ODP tonnes of HCFC-141b were phased out.

The second phase of the implementation of this project is to focus on the foam enterprises with the consumption of less than 20 metric tonnes of HCFC-141b. In this relevance, the Department of Environment Malaysia (DoE) virtually held a webinar and one-to-one consultation meetings for the foam sector under the HPMP II from 12th – to 15th October 2021. The webinar gathered 72 live attendees, mainly from the key players operating in the foam industries. It aimed to help small and medium-sized foam enterprises (SMEs) convert their PU production lines to non-HCFC alternative systems before a ban on the import and HCFC 141b use comes into force on 1 January 2023.

Ms. Aminah Ali, the former DOE officer, opened the webinar by delivering a welcome speech and providing an overview of the Montreal Protocol and project implementation status. Next, Mr. Zhang Peng, a foam expert from China, walked through the key messages on analyzing currently available alternatives to replace HCFC 141b. He subsequently explained each option's pros and cons, such as Hydrocarbon, Methylal, Methyl formate, water-blown, HFO, and HFC, particularly safety issues, toxicity, and insulation properties. Then, Mr. Anderson Alves from the UNDP Bangkok presented guidelines and procedures for the project implementation under the HPMP program before it ended with a question-and-answer session. The event was carried on with four-day one-to-one consultative meetings where 14 SMEs participated in the sessions held from 12th to 15th October 2021. During the consultations, they took the chance to raise issues and discuss with the expert solutions to the problems they faced along the way to the technology conversion. Overall, this event was beneficial to the participants in terms of experience and sharing knowledge towards finding a solution to challenges in converting into non-HCFC 141b alternatives.

COMBINED TWELFTH MEETING OF THE CONFERENCE OF THE PARTIES (COP12) (PART II) TO THE VIENNA CONVENTION AND THIRTY-THIRD MEETING OF THE PARTIES (MOP33) TO THE MONTREAL PROTOCOL

29 OCTOBER 2021

Virtually

The 33rd Meeting of Parties (MOP) to the Montreal Protocol was held on 23 - 29 October 2021. The preparatory segment of the meeting was held from 23 – 28 October 2021. The high-level segment was opened on 29 October 2021, by Mr. Simeon Sawadogo, Minister of Environment, Green Economy and Climate Change from Burkina Faso, President of the Thirty-Third Meeting of the Parties to the Montreal Protocol. Following the spread of the COVID-19 outbreak and travel restrictions, the meeting of COP12 (Part II) and MOP33 were held online from 7 to 10 pm during those dates.

The High-Level Segment meeting was attended by top management from each Parties. In the segment, the Parties finalized and concluded the decisions that had been proposed from the Preparatory Segment. The Head of Delegation for Malaysia, Mr. Wan Abdul Latiff Wan Jaffar, the Director General of Environment, lead the Malaysian delegations in the High-Level Segment meeting.

Main issues discussed during meeting among others were on budget of Vienna Convention and Montreal Protocol, replenishment of the Multilateral Fund (MLF) for the Implementation of the Montreal Protocol for the period 2021-2023, unexpected emissions of trichlorofluoromethane (CFC-11), identification of gaps in the global coverage of atmospheric monitoring of controlled substances under Montreal Protocol and energy efficient and low global warming potential technologies.

The President of MOP officially closed the MOP33 meeting at 10.50 pm Malaysia local time on 29 November 2021 thanking all Parties and the Ozone Secretariat. The next meeting 34th Meeting of the Parties to the Montreal Protocol on Substances that Deplete the Ozone Layer (MOP 34) will be held on 31 October until 4 November 2022 and the Ozone Secretariat has tentatively indicated the venue will be in Nairobi, Kenya.



MASTER TRAINERS

*of Certified Service Technician Programme (CSTP)
in Refrigeration and Air Conditioning Sector*



15 - 19 November 2021

Everly Hotel, Putrajaya

The Master Trainer Workshop for Certified Service Technician Programme (CSTP) in Refrigeration and Air Conditioning Sector (RACs) was successfully conducted at The Everly Hotel, Putrajaya from 15 to 19 November 2021. It was organized by the National Ozone Unit (NOU), Department of Environment, Malaysia. 22 participants from Authorized Training Center (ATC) and 3 officer from Department of Environment Malaysia attended the workshop. The objective of the workshop was to train and familiarize the trainers with the manual that will be used in the CSTP training. Good practice and proper handling of HCFC and HFC based equipment and other emerging refrigerants in the market were emphasized. Recovery and recycling techniques of HCFC and refrigerant was also highlighted in an effort to accommodate the gradual reduction of HCFC and refrigerant in the country. At the end of the workshop the trainers undergo an assessment before they can be certified as Master Trainer in CSTP. The assessment consisted of two components, theoretical and practical session which covered detailed and thorough checklist on the good practices in Refrigeration and Air Conditioning Servicing.



FOAM SECTOR

Technology Conversion Project Achievement

2021

Virtually

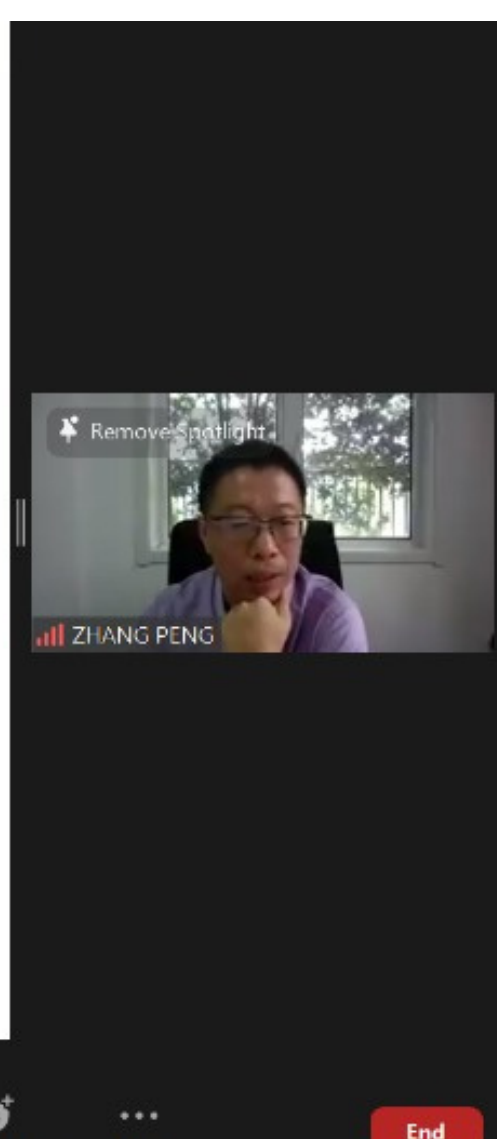
Malaysia has been actively facilitating every effort and fostered a strong commitment to phase out the usage of Ozone Depleting Substances (ODS). Through the Hydrochlorofluorocarbon Phase Out Management Plan (HPMP), Malaysia aimed to phase out about 66.94 ODP Tonnes of HCFC 141B from the total 403.91 ODP of HCFC specifically in the foam sector.

To achieve this target, 67 Polyurethane (PU) foam manufacturers were introduced to Technology Conversion Project. As one of the strategies in phasing out HCFC-141B, these manufacturers are required to converted to other Non-ODS technologies such as cyclopentane, methylal, and water blown. By implementing this project, the manufacturers are eligible to receive funds from the Multilateral Fund (MLF) for the technology conversion.

PU Blowing Agent Development Trend



	TYPE	TYPICAL SUBSTANCE	ODP	GWP	ROUTE
1 st Gen	CFCs	CFC-11	1.0	1100	
2 nd Gen	HCFCs	HCFC-141b	0.11	725	
3 rd Gen	HFCs	HFC-245fa HFC-365mfc	0 0	1030 794	
4 th Gen	H(C)FOs	HCFO-1233zd(E) HFO-1336mzz	-0 0	1 8.9	
Final solutions	Hydrocarbon Water/CO ₂	Cyclo-pentane Water	0 0	<25 1	



Global Technology Uptake Scenario



- HFCs limited by high GWP and cost (245fa and/or 365mfc/227ea) = **future implementation of the Kigali Amendment.**
- HFOs still suffering of limitations in large commercial scale supply as well as high costs (between 15-20 USD/Kg).
- Methylal is flammable as pure substance and as well blended in polyols (safety precautions at the same level of hydrocarbons).
- Ecomate® (Methyl Formate) is flammable as pure, formulated system may not flammable (below 6ppm).
- Water-based systems: pose some limitations in use, but feasible alternative for some applications.
- Hydrocarbons: consolidated and well-known BA, wide use in several applications. Is explosive and flammable, so high capital cost is observed.
 - Pre-blended hydrocarbons



However, the Covid-19 pandemic has been the greatest challenge for the foam industry. Foam producers were forced to halt their business, causing disruptions in the company's earnings. Despite the difficulties, 8 premises pulled through to fulfill the obligation of phasing out the usage of HCFC-141B by completing Milestone 1 of the alternative technology conversion project.

As the previous year, the number of foam manufacturers that have successfully completed technology conversion remains 12 companies, which includes 10 large enterprises (consumption of 20 MT or more per year) and 2 small enterprises (consumption of less than 20 MT per year). By adapting cyclopentane (C5) as one of the options to alternative technology, these completed manufacturers phasing out approximately 43.757 ODP HCFC-141B usage and contribute to 64.4% of the overall phase out target of HCFC-141B.

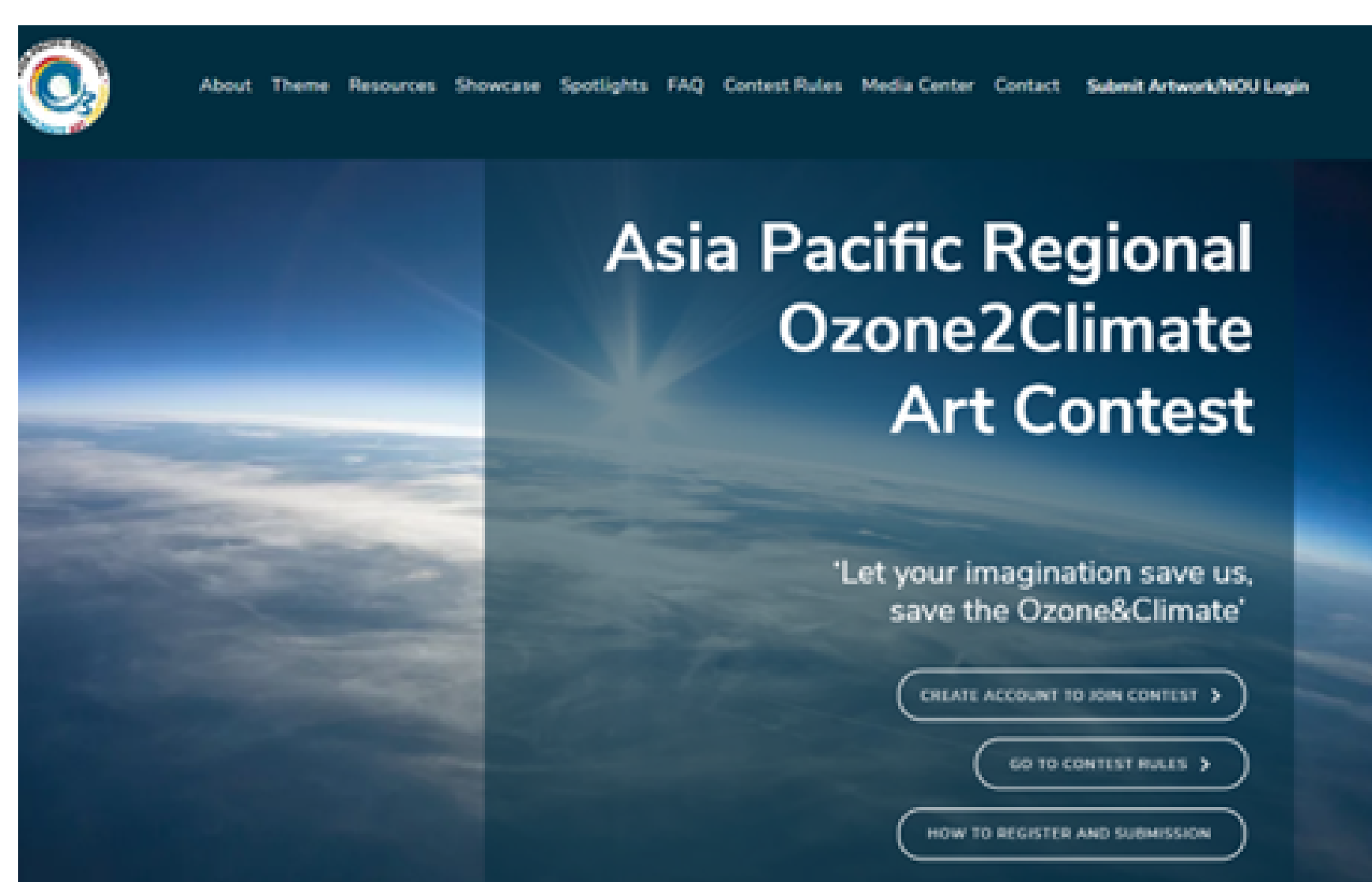
To raise awareness of the ban of HCFC-141B usage that will be initiated starting 1 January 2023, the Department of Environment (DOE) has organised numerous sessions of premise visitation, webinars, consultation, and discussion amongst stakeholders. With the commitment from both government and industries, this project has shown substantial progress regardless of the challenges and setbacks. DOE intends to enhance and step up the efforts in assisting more PU foam companies in completing the project by 2022.

ASIA-PACIFIC REGIONAL OZONE2CLIMATE ART CONTEST

September 2021

April 2022

Virtually



Parties to the Montreal Protocol celebrate World Ozone Day on 16 September every year. In 2021, the theme for World Ozone Day was Montreal Protocol: Keeping Us, Our Food and Vaccines Cool. In conjunction or the celebration of World Ozone Day 2021, an art contest, Asia-Pacific Regional Ozone2Climate Art Contest was held. Asia-Pacific Regional Ozone2Climate Art Contest is aimed to increase public awareness about the issue of ozone layer depletion and climate change caused using ozone-depleting substances and hydrofluorocarbons (HFCs) with high Global Warming Potential (GWP), to promote the linkage of ozone layer and climate change protection, as well as achievements made under the Montreal Protocol. This contest was held in collaboration with National Ozone Units from the Parties to the Montreal Protocol from Asia Pacific, United Nations Environment Program (UNEP), United Nations Educational, Scientific and Cultural Organization (UNESCO) and United Nations Industrial Development Organization (UNIDO).

The objectives of this Ozone2Climate Art Competition are to raise public awareness on the importance of conservation and preservation of the ozone layer, disseminate the importance of ozone layer protection and mitigating the impact of climate change in the implementation of the Montreal Protocol including the Kigali Amendment, actions, and initiatives that the public can take to assist in the implementation of the Montreal Protocol including the Kigali Amendment.

The Asia-Pacific Regional Ozone2Climate Art Contest was started from 16 September until 30 April 2022. This Asia-Pacific Regional Ozone2Climate Art Contest was divided into two phases, the first phase at the National Level and the second phase at the regional level was jointly organized by UNEP, UNESCO and NOU from Asian Countries and the Pacific region.

The competition was held online where participants must upload the artwork on the website that provided by the organizers. The artwork received will be screened by the National Ozone Unit before being evaluated by a panel of evaluators. The winners of the contest will be announced later at World Ozone Day 2022.

Overall Statistics 2021

Certified Service Technician Program (CSTP)



Number of courses implemented:

33

ATC Number:

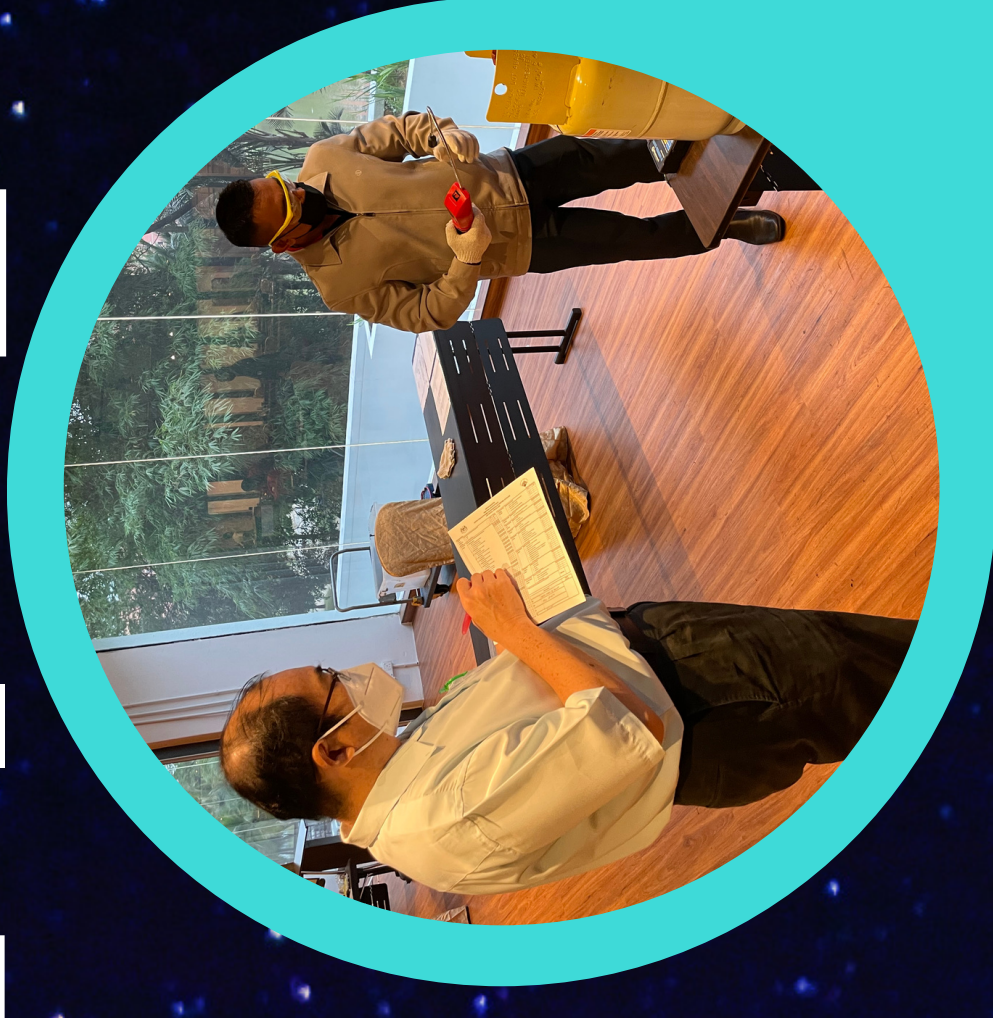
48

Number of Master Trainers:

280

Number of Certified Technicians:

19,889



Foam Sector Technology Conversion (HPMP II)

COMPLETED

12

MILESTONE 1

5

MILESTONE 2

17

Import and Export Permit Applications for 2021

Import

199

Export

4

HCFC


Import

1106

Export

221

HFC



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