Memorandum of Understanding on
Zero-Emission Medium- and Heavy-Duty Vehicles

The signatories to this Memorandum of Understanding (MOU), hereinafter referred to as the “Participants”, in their collective ambition to accelerate zero-emission medium- and heavy-duty vehicles (ZE-MHDVs), recognizing that:

- Transport is a large and fast growing source of greenhouse gas (GHG) emissions globally, and that MHDVs are a large source of transport sector GHG emissions;
- Current MHDVs are a major source of local air pollutants, including nitrogen oxides, particulate matter, and toxic air emissions, and that these pollutants negatively impact urban air quality and human health, disproportionately affecting disadvantaged communities located near freight corridors, ports and distribution centers;
- ZE-MHDVs offer a viable pathway to decarbonize the road transport sector as technology has advanced greatly over the last decade and can deliver its full potential through aligned global ambition, enabling implementation action, and market incentives;
- ZE-MHDVs are essential to reducing transport emissions, mitigating climate change, improving air quality, reducing the use of fossil fuels and energy costs;
- Commercial deployment of ZE-MHDVs remains limited, and further advancements in the state of technology and deployment stand to benefit from global collaboration and coordination, which can also result in accelerated private sector investment in the ZE-MHDV sector;
- Investments in ZE-MHDVs could help to stimulate economic growth by creating new jobs in the zero-emission vehicle and charging/fueling equipment manufacturing, supply chain, energy and service sectors;
- It is strategically important to decarbonize MHDVs and urgently begin the adoption of ZE-MHDVs given long fleet turn-over times;
- Clean mobility solutions aspire to improve public health and work toward meeting our shared climate goals by providing clean, reliable, safe, and affordable mobility solutions to everyone; and
- The adoption of ZE-MDHVs might require different approaches and enabling conditions in different parts of the world.

Have reached the following understanding:

1. OVERALL AMBITION

The Participants intend to work together to identify viable pathways and supportive implementation action for deployment of ZE-MHDVs and related infrastructure that enable ZE-MHDVs to reach 30% of sales of new MHDVs by 2030, as well as enable a full transition to ZE-MHDVs in new fleets by 2040 to facilitate achievement of net-zero carbon emissions by 2050. The Participants are invited to publicly share a higher ambition when signing this MOU where applicable.

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1 For purposes of this MOU, MHDVs are vehicles with gross vehicle weight above 3,500 kilograms used for freight and passenger transport. ZE-MHDVs are MHDVs with zero tailpipe emissions.
2. MOU IMPLEMENTATION

2.1 The Participants plan to meet annually to discuss progress and share experiences to accelerate the deployment of ZE-MDHVs.

2.2 The Participants intend to share plans with current and potential actions to support the ambitions described in Section 1 of this MOU, and to share MHDV registration data annually, within available capabilities.

2.3 The Participants plan to participate in the Global Commercial Vehicle Drive to Zero program and campaign of the Clean Energy Ministerial’s Electric Vehicle Initiative, which serves as a forum for coordination, collaboration and information sharing on ZE-MHDVs. Through their participation in the Global Commercial Vehicle Drive to Zero forum, the Participants intend to facilitate the development of plans and consolidate Participants’ annually reported MHDV registration data to understand progress made and discuss ways to accelerate progress where needed.

3. ADDITIONAL PROVISIONS

3.1 This MOU becomes effective for each Participant upon its signature.

3.2 This MOU is not an international agreement and does not create any legally binding rights or obligations between or among the Participants. In addition, implementation of the ambitions stated in this MOU is within the discretion of each Participant and is not conditioned upon reciprocal actions by other Participants.

3.3 Each Participant intends to conduct any cooperative activities under this MOU in accordance with applicable laws, regulations and policies to which it is subject.

3.4 The Participants may discontinue participation in this MOU at any time by providing six months advance written notice to the other Participants.

3.5 This MOU may be modified by mutual written decision of all Participants.

3.6 Additional Participants may join this MOU after its announcement at COP26.

Finalized and open for signature by each Representative on the 15th of November of 2022, in the English language.
Representing the Government of Aruba:

Ursell Arends
Minister of Transport, Integrity, Nature and Senior Affairs

Geoffrey Wever
Minister of Economic Affairs, Communication and Sustainable Development
For AUSTRIA:

Leonore Gewessler
Federal Minister for Climate Action, Environment, Energy, Mobility, Innovation and Technology
27th of October 2021
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Finalized and open for signature by each Participant on the 5th of October of 2021, in the English language.

For Zakia Khattabi:

[Signature]

Federal Minister of Climate, Environment, Sustainable Development and Green Deal
For Canada:

Jonathan Wilkinson - Minister of Natural Resources
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For the Government of Cabo Verde:

Alexandre Monteiro

Minister of Industry, Trade and Energy

21 September 2023
For Ministry of Energy, Chile:

Juan Carlos Jobet
Bi-minister of Energy and Mining

October 28th, 2021
SUBJECT: Memorandum of Understanding on Zero-Emission Medium and Heavy Duty Vehicles

Following your initiative to accelerate the global decarbonisation of road transport, we would like to inform you that Ministry of the Sea, Transport and Infrastructure supports the overall ambition of the Memorandum of Understanding on Zero-Emission Medium and Heavy Duty Vehicles concerning the identification of the most appropriate model for the deployment of zero-emission medium- and heavy duty vehicles (ZE-MHDVs) and related infrastructure that enable ZE-MHDVs to reach 30% of sales of new MHDVs by 2030, as well as to enable a full transition to ZE-MHDVs in new fleets by 2040 in order to facilitate achievement of net-zero carbon emissions by 2050.

We are open for the coordination, collaboration and information sharing under MoU in order to ensure global sustainable roads with ZE-MHDVs. Herewith, we confirm signature of the MoU.

Yours sincerely,

DEPUTY PRIME MINISTER AND MINISTER

[Signature]

Oleg Butković
Curacao

Charles Cooper
minister of Traffic, Transportation and Urban Planning

15 November 2022
For Denmark:

Benny Engelbrecht – Minister for Transport of the Kingdom of Denmark

31 October 2021
For [NAME OF PARTICIPANT]:

DOMINICAN REPUBLIC

Participant Representative’s Name and Title
Max Pujol
Vice Presidente Ejecutivo
Consejo Nacional para el Cambio Climático

Date
15 November 2022
For [NAME OF PARTICIPANT]:

Timo Harakka
Minister of Transport and Communications, Finland

28 October 2021
For ICELAND:

[Signature]

Sigurður Ingi Jóhannsson
Minister of Infrastructure
21st November 2023
For [NAME OF PARTICIPANT]:

Signatures

Participant Representative's Name and Title
Date 08/11/2022
MINISTER OF
TRANSPORT
EAMON RYAN
For the Principality of Liechtenstein:

Dr. Graziaella Marok-Wachter, Minister of Infrastructure

Vaduz, November 16th 2022
For the Republic of Lithuania

Marius Skuodis
Minister of Transport and Communications
of the Republic of Lithuania
17 November 2022
For the Grand-Duchy of Luxembourg:

François BAUSCH
Deputy Prime Minister,
Minister for Mobility and Public Works,
8th November, 2021
For the Netherlands:

Steven van Weyenberg, Secretary of State of Infrastructure and Water Management
November 3, 2021
For NEW ZEALAND:

Hon Dr Megan Woods
Minister of Energy and Resources
4 November 2021
For Norway:

[Signature]

Minister of Transport, Jon-Ivar Nygård
For PORTUGAL:

Jorge Moreno Delgado
Secretary of State for Urban Mobility
18 May 2022
For Scottish Government:

Stuart Greig, Director of Low Carbon Economy, Transport Scotland, Scottish Government,
2 November 2021
For [NAME OF PARTICIPANT]:

S. Sommer
Participant Representative's Name and Title

Date

Eidg. Departement für Umwelt
Verkehr, Energie und Kommunikation
Bundeshaus Nord
3003 Bern

Bern 19. November 2021
For [NAME OF PARTICIPANT]:

Ministry of Industry and Technology
Republic of Turkey

H.E. Mr. Mustafa VARANK
Minister of Industry and Technology
05.11.2021
For Ukraine:

Olksandr Kubrakov
Minister of infrastructure of Ukraine
November 01, 2022
For the United Kingdom of Great Britain and Northern Ireland

02/11/2021

Trudy Harrison MP, Parliamentary Under Secretary of State for Transport, UK
FOR THE GOVERNMENT OF THE UNITED STATES OF AMERICA

Jennifer Granholm
Secretary
U.S. Department of Energy

11/16/2022
Date
Mr. Adrian Peña
Minister of Environment
República Oriental del Uruguay

November 8th 2021