### 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 heavyduty vehicles (ZE-MHDVs),<sup>1</sup> 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, disproportionally 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.

<sup>&</sup>lt;sup>1</sup> 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 15<sup>th</sup> of November of 2022, in the English language.

Representing the Government of Aruba:

JA

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 27<sup>th</sup> of October 2021

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Finalized and open for signature by each Participant on the 5<sup>th</sup> of October of 2021, in the English language.

For Zakia Khattabi:

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

Sonathan Wilkinson - Minister of Natural Resources

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Finalized and open for signature by each Participant on the 5th of October of 2021, in the

English language.

For the Covernment 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

# For [NAME OF PARTICIPANT]: WILLIAM FERNANDO CAMARGO TRIANA

Participant Representative's Name and Title

Date

5th of december of 2023 Minister of Transport

Participan Representative's Name and Title

Charles Cooper minister of Traffic, Trasportation 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 READEC

Participant Representative's Name and Title MAX POIG

Date

VICEPRESIDENTE EJECUTIVO CONSETO NACIONAL PARA EL CAMBIO CLIMATICO

15 NOVEMBER 2022

Timo Harakka

Minister of Transport and Communications, Finland

28 October 2021

For ICELAND:

Sigurour Ingi Jóhannsson Minister of Infrastructure 21. November 2023

Participant Representative's Name and Title

Participant Representatives Iname Date 08/11/2022 MINISTER OF TRANSPORT EAMON RYAN

For the Principality of Liechtenstein:

Dr. Graziella 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:

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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:

Minister of Transport, Jon-Ivar Nygård

31

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

Participant Representative's Name and Title Date

Pen 19. Wollenber 2021

Participant Representative's Name and Title Date

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

Ministry of Industry and Technology Republic of Turkey

H.E. Mr. Mustafa VARANK Minister of Industry and Technology

05.11.2021

For Ukraine:

Oleksandr 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

## For Welsh Government:

Lee Waters MS
Deputy Minister for Climate Change
Welsh Government
8 November 2021





Class: 910-01/22-01/137 Sig.No.: 530-08-1-2-22-2 Zagreb 15 November 2022.

> Kingdom of the Netherlands Ministry of the Infrastructure and Water Management Mrs. Vivien Heijnen, Minister for the Environment

**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** 

Oleg Butković

