TERM OF REFERENCE

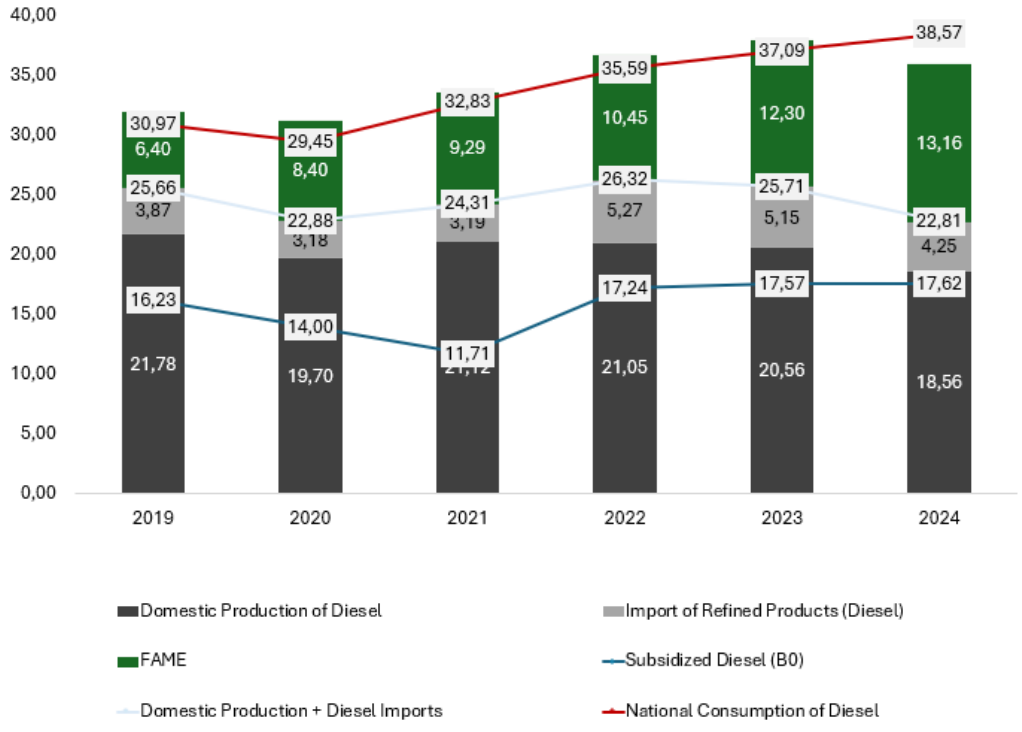
IFDA Corporate Assistance Program: Zero Emission Truck Learning Center (ZETLC)

Jakarta, 30 April & 18 May 2026

1. Background

Indonesia's growing reliance on oil imports poses a risk to its energy security. In the case of diesel, where 80–90% of national consumption is attributed to the transportation sector, dependence on imported diesel products and the use of Crude Palm Oil-based biofuel may provide short-term relief in meeting national energy demand. However, in the long run, this dependence could pose a risk to the country's sovereignty as the productivity of the nation is growing. The Handbook of Energy and Economy Statistics Indonesia (HEESI) from the Ministry of Energy and Mineral Resources reveals that Indonesia only produce around 17.6 million kilolitres of diesel, equivalent to about 47% of total diesel consumption in the transport sector.

Historical Data of Gasoil Composition in the last 6 years (in million kL)



The subsidy burden is also becoming another national concern. In 2024, the Ministry of Finance allocated approximately IDR 90 trillion (USD 5.3 billion) solely for diesel subsidies, that almost double the gasoline (Pertalite) subsidy, which amounted to around IDR 56 trillion. Moreover, to meet the gap between domestic production and national demand, Indonesia continues to import oil. This situation reduces the trade balance surplus, puts pressure on currency exchange value and widening the gap in achieving energy security.

Accelerating the transition to clean energy in the trucking sector is therefore not merely a climate mitigation strategy, but a strategic economic imperative. It offers multiple co-benefits, including reducing air pollution, improving public health, and strengthening national energy security by lowering dependence on imported fuels. At the same time, it can ease pressure on the national budget by reducing fuel subsidies and improving Indonesia's trade balance. However, this transition is not without challenges. Key barriers such as limited market confidence, high upfront costs, technology uncertainty, and unclear ownership and financing models continue to hinder large-scale private sector adoption.

To address these gaps, the Indonesia Freight Decarbonization Accelerator (IFDA), led by the World Resources Institute (WRI) Indonesia with support from the Coordinating Ministry for Infrastructure and Regional Development, aims to accelerate the transition toward zero-emission freight through industry actor leadership. A core component of this effort is the establishment of an **ZET Learning Center**, a corporate assistance program designed to equip companies with practical knowledge, tools, and decision-making support to de-risk investments and operationalize fleet electrification. Through a structured framework encompassing key pillars and programmatic activities, the ZET Learning Centre seeks to build market confidence, enable informed business decisions, and catalyse a private-sector-led transformation toward a cleaner, more resilient logistics system.

2. Event Description

The IFDA Corporate Assistance Program: ZET Learning Center is a one-month structured workshop that combines World Resources Institute (WRI) Indonesia's localized technical expertise with the Smart Freight Centre's (SFC) global GLEC standards to empower corporations in planning and scaling their electric heavy-duty fleets. Participants will engage in specialized modules covering Corporate Sustainability Strategy, EV Adoption Pathways, and Financial & Market Economics, including advanced Total Cost of Ownership (TCO) modeling tailored to the Indonesian market. The program aims to foster corporate leadership by providing tools for comprehensive capacity building, from mastering global GHG accounting (ISO 14083) to developing investment-ready e-truck frameworks. By bringing together dedicated corporate partners, this initiative seeks to strengthen partnerships, de-risk investments, and galvanize collective action toward a sustainable and operationally ready net-zero logistics ecosystem in Indonesia.

3. Event Objectives

- To improve companies' awareness about freight decarbonization impact within the operation
- To enhance corporate understanding of how to integrate electric vehicles and charging infrastructure into logistics operations through feasibility assessments and best-practice sharing.
- To master global GHG accounting standards to set more ambitious decarbonization goals and formally integrate freight sustainability into corporate agendas.

- To align technical viability with financial reality by providing specialized tools and resources to de-risk investments in green technology.
- To foster alignment between corporate sustainability targets and Indonesia's national net-zero goals by connecting relevant stakeholders.

4. Schedule

This event will be held on:

Date : Thursday, 30th April 2026 & Monday, 18th May 2026
time : 09.00 - 17.00 WIB
location : TBD

5. Event Plan

In-person Class 1 *- Thursday, 30th April 2026*

Time	Duration	Activity
09.00 – 09.30	30'	Registration
09.30 – 10.00	30'	Opening & Round of Introduction
10.00 – 11.00	60'	Program Introduction: ***Why Freight Decarbonization should be national agenda?*** *Presenter: I Made Vikannanda – WRI Indonesia*
11.00 – 12.00	60'	**Module 1: Corporate Sustainability Strategy and Freight Decarbonization** • The importance of planning decarbonization strategy • Understanding emission inventory • Global standards and alignment • What the role of freight decarbonization in Sustainability *Presenter: Muhammad Rizki (Taki) – WRI Indonesia*
12.00 – 13.00	60'	Lunch Break & Networking Session
13.00 – 14.45	105'	**Module 2: Logistics Emissions & Life Cycle Analysis (LCA)** • GLEC Framework (ISO 14083 alignment) • Lifecycle Assessment (LCA) for heavy-duty fleets • Calculating Scope 3 logistics emissions • *Presenter: Smart Freight Center*
14.45 – 15.15	30'	Coffee Break & Networking Session

15.15 – 17.00	105’	**Module 3: Corporate Strategy** • SFC Academy: Developing a Sustainable Logistics Roadmap • Best Practices Sharing Session *Presenter: Smart Freight Center*
17.00 – 17.15	15’	Closing Session

In-person Class 2 *- Monday, 18th May 2026*

Time	Duration	Activity
09.00 – 09.30	30’	Registration
09.30 – 10.00	30’	Opening & Round of Introduction
10.00 – 12.00	120’	**Module 4: Understanding EV Adoption Pathways** • Technology & Business Model • How to plan sustainable e-mobility operation • Charging infrastructure tools *Presenter: Aryorespati Xavier – WRI Indonesia*
12.00 – 13.00	60’	Lunch Break & Networking Session
13.00 – 14.45	105’	**Module 5: Financials & Market Economics** • Understanding Total Cost of Ownership (TCO) • Structuring Financing and Bankability • The role of EV for energy and economics *Presenter: Dwangga Nugraha – WRI Indonesia*
14.45 – 15.15	30’	Coffee Break & Networking Session
15.15 – 16.45	90’	**Program Summary and Reflection** *Presenter: WRI Indonesia*
16.45 – 17.00	15’	Closing Session