IFDA Indonesia Freight Decarbonization Accelerator

WRI INDONESIA

Zero Emission Truck Learning Center (ZETLC)

Program Overview

IFDA Indonesia Freight Decarbonization Accelerator

IFDA Overview

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IFDA builds on WRI Indonesia's strong relationship with government agencies and key stakeholders in freight transport to advance coordinated decarbonization efforts

Strong Support from High-Level Government Officials

The Indonesia Freight Decarbonization Accelerator (IFDA) was launched in May 2025 by WRI Indonesia, with **the official endorsement and launch support signed by the Coordinating Minister of Infrastructure and Regional Development**, marking the formal establishment of a national multi-stakeholder platform for freight decarbonization.

We are engaging our partner through series of events

IFDA Bi-monthly Discussion #1 – Bali Climate Week
Denpasar, 28 Aug 2025

Indonesia Zero Emission HDV Summit 2025
Jakarta, 27 Mei 2025

1-on-1 engagement with IFDA's Partners and Stakeholders
Jakarta, Oct – Dec 2025

Year End Dinner 2025
Jakarta, 11 Dec 2025

IFDA Bi-monthly Discussion #2 – CSO & Think Tank
Jakarta, 5 Mar 2026

IFDA activities that spread across high-level events to localized research dissemination serve as **critical intellectual footprints and relational capital**. This approach establishes IFDA as a **central, influential convener** and provides the necessary **leverage to influence** key decision-makers.

IFDA as Platform for related stakeholder of Zero-Emission transition in freight transport system

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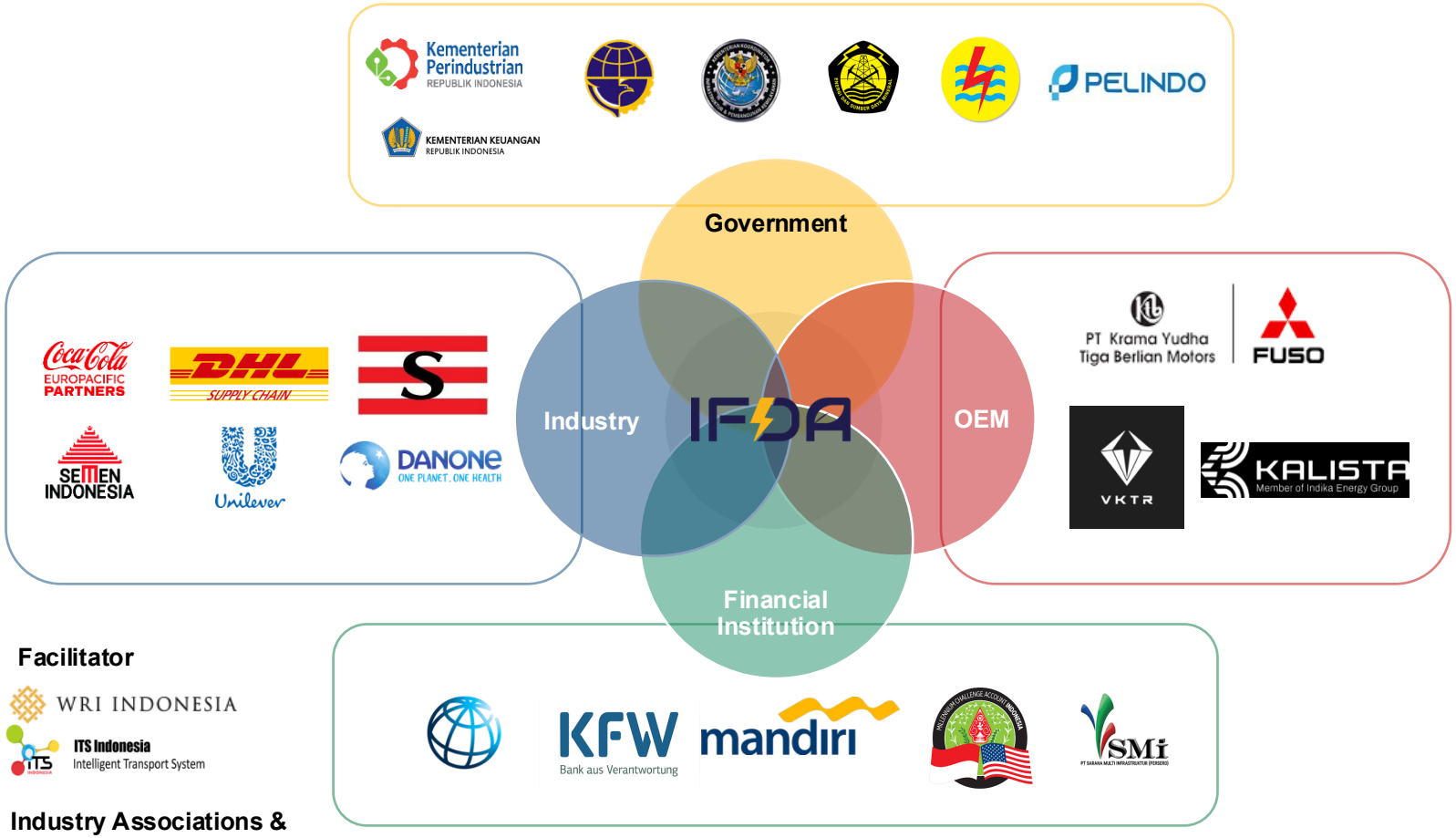

Facilitator

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ITS Indonesia Intelligent Transport System

Industry Associations & Business Networks

KADIN INDONESIA · GAIKINDO

*The chart is for illustration purposes only; the institutions mentioned above are those that have participated in direct dialogue and discussions in forums organized by WRI.

Vision

The Indonesia Freight Decarbonization Accelerator (IFDA) aims to accelerate the transition toward a zero-emission freight transport system that supports Indonesia's net-zero emission target. IFDA will serve as a **platform for collaboration among policymakers, industry players, suppliers, financial institutions, and civil society organization**s (CSOs) to help build a strong ecosystem for ZETs and other clean technologies.

Highlights

16 Companies Engaged

3 Roundtable Discussions

1 National Summit Held

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Programs

IFDA Indonesia Freight Decarbonization Accelerator

Bi-Monthly Discussion Forums

Facilitating knowledge sharing, learning, and research dissection among IFDA Members (Government, Industry, OEMs, Financiers, and CSOs) related to Freight Decarbonization Practices.

Use Case Development

Use case implementation and technical/financial planning assistance, but not limited to:

- Charging infrastructure model for business use
- Financing feasibility model for business use
- Development of key planning points for an investment-ready e-truck framework

IFDA Advisory Board Meeting*

Seeking direction from the Advisory Board on strategic plan, progress, and next steps. Also, providing reports on performance and impact delivered by IFDA.

Corporate Assistance Program

Streamlines employee development through structured classroom learning for each batch. WRI Indonesia will provide tools and focus on comprehensive capacity building to enhance practical skills on freight decarbonization.

Business Matchmaking

Business Matchmaking aims to connect potential financiers, industries, and OEMs to foster collaboration and accelerate growth, and to estimate the required aggregated demand for e-trucks in Indonesia.

Newsletter

Newsletter of notifications and news, which contains updated research, latest news or policies in regard to freight decarbonization.

Global Benchmarking & Forum

Benchmarking and collaborating with global partners and key government counterparts in convening international and high-level Freight Decarbonization Accelerator forum.

Policy/Briefing Notes

Compiling discussion points and meeting notes that would help decision makers to develop relevant policies on the acceleration of freight decarbonization

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We set up four key pillars to catalyze the transformation in the ecosystem

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1
Develop Inclusive Regulatory Frameworks

Examine policy recommendations both for demand-side and supply-side policies through participatory approaches.

2
Foster Mutual Aspiration & Business Matchmaking

Through multi-stakeholder's dialogue to foster collaboration between government, industry, suppliers and financial institutions

3
Foster Corporate Leadership

Accelerate company's effort on decarbonization through corporate assistance program on zero emission mobility planning.

4
Accelerate Project Demonstration & Proof of Concept

Mobilize coordinated action between all actors to showcase best practice of project demonstration

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Key identified gaps that we want to fulfill

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Background

The transition to e-HDVs has evolved from a sustainability goal into a pillar of national energy security. Indonesia currently faces rising diesel consumption and an increasing fiscal burden from fuel subsidies and import dependence. Decarbonizing the freight sector serves as a strategic response to these macroeconomic pressures, aligning corporate logistics with Indonesia's long-term climate targets and energy self-sufficiency.

Successes and Structural Barrier

IFDA hosted a couple of roundtable discussions with industry players to discuss what is the current barrier for them to adopt e-HDV. While initial industry engagement is high, current research and stakeholder reflections highlight four primary issues:

Proven Technical Viability vs. Financial Reality

- Recent pilots successfully validated that 6x4 electric trucks can achieve a 160–240 km range with 68% energy efficiency savings.
- However, the commercial case is hampered by upfront costs 2.5–3x higher than diesel trucks, leading to break-even points exceeding 8 years.

Infrastructure & Operational Constraints

- Current operations are often restricted to on certain areas such as industrial estates due to concerns regarding the reliability and availability of external high-power charging stations and networks.

Knowledge Gaps & Payload Limitation

- Early trials have revealed significant impacts on operating economics, including payload limitations and the need for mid-day opportunity charging sessions that many corporations are not yet equipped to manage.

Demand-Side Readiness

- While FMCG players and logistics companies express growing interest, there is a clear readiness gap between recognizing environmental benefits and managing the financial premiums required for the transition.

Zero Emission Truck Learning Center (ZETLC)

Zero Emission Truck Learning Center Program Overview

IFDA Indonesia Freight Decarbonization Accelerator

A one-month structured workshop that combines WRI Indonesia's localized technical expertise with SFC's global standards to empower corporations in planning and scaling their electric heavy-duty fleets. By mastering GLEC-aligned carbon accounting and advanced TCO modeling, participating companies are equipped to accelerate their transition from pilot projects to operationally ready, net-zero logistics.

Activities	*Program Specifications*	*What success looks like*
Offline Training & Active Interaction	**Cost** Free	Improved companies' awareness about freight decarbonization impact within the operation
Resources (tools and guidelines)	**Number of Participants** Maximum 20 companies, 3 participants each	Corporate partners increased the understanding of how to plan for e-mobility adoption in the operation
Best Practice Sharing Session	**Program Agenda** April – May 2026 (TBD)	More ambitious targets of EV adoption in the corporation.
Matchmaking & Networking Event	***Program Output*** *Certificate and resources (TBD)*	Master global GHG accounting standards to integrate freight decarbonization in corporate sustainability agenda.

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Zero Emission Truck Learning Center (ZETLC)

About the facilitators...

IFDA Indonesia Freight Decarbonization Accelerator

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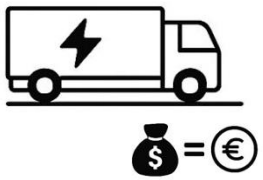
With two years of dedicated Indonesian electric freight research and the initiator of IFDA, WRI Indonesia expertise provides the foundation for localized transition.

Strategic Stakeholder Ecosystem

Direct access to a robust network of government, industry leaders, and CSOs to align corporate goals with national targets.



Localized Financial Modeling

Specialized Total Cost of Ownership (TCO) tools tailored to the Indonesian market to de-risk investment.

Infrastructure & Technology Assessment for e-mobility

Comprehensive assessments of Charging Infrastructure Readiness and the fiscal implications of fleet electrification.

Smart Freight Centre

A leading global NGO in freight decarbonization since 2013, SFC brings proven methodologies from Europe, China, and India to the Indonesian context.

Smart Freight Centre Academy

The GLEC Framework

The industry-standard methodology for logistics GHG accounting, fully aligned with ISO 14083 for globally recognized reporting.

GLEC GLOBAL LOGISTICS EMISSIONS COUNCIL LED BY SMART FREIGHT CENTRE

SFC Academy

A structured Sustainable Logistics Roadmap designed to empower internal "change agents" through modular training and step-by-step transition planning.

Zero Emission Truck Learning Center (ZETLC)

Topics that will be discussed in the session

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Program Objectives

This program streamlines corporate development through structured one-day learning, combining WRI Indonesia's localized technical tools with SFC's global GLEC standards and Academy. It empowers companies to plan, implement, and scale EV fleets while providing the technical expertise to accurately measure and report their impact on decarbonization goals.

Topics and Learning Outcomes

Timeline	Module	Key Topics	Key Learning Outcomes	Facilitator
CAP Class 1 (30 April 2026)	**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	Improved and aligned corporate sustainability agenda with freight decarbonization (scope 1 and 3)	WRI
	Logistics Emissions & LCA	• GLEC Framework (ISO 14083 alignment) • Lifecycle Assessment (LCA) for heavy-duty fleets • Calculating Scope 3 logistics emissions	Master global GHG accounting standards and lifecycle impact.	SFC
	Corporate Strategy	• SFC Academy: Developing a Sustainable Logistics Roadmap • Best Practices Sharing Session	Aligning EV adoption with corporate sustainability targets.	SFC
CAP Class 2 (18 May 2026)	**Understanding EV Adoption Pathways**	• Technology & Business Model • How to plan sustainable e-mobility operation • Charging infrastructure tools	Improved awareness and technical know how for EV implementation	WRI
	Financials & Market Economics	• Understanding Total Cost of Ownership (TCO) • Structuring Financing and Bankability • The role of EV for energy and economics	Understanding the case for EV financing for logistic operation	WRI

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Zero Emission Truck Learning Center (ZETLC)

Detailed agenda

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Program Timeline

Kick-off
(Online)

29 April 2026

Class 1
(In-person)

30 April 2026

Module:

- Corporate Sustainability Strategy and Freight Decarbonization
- Logistics Emissions & LCA
- Corporate Strategy & Best Practices

Class 1 Assessment
(Online)

1– 15 May 2026

Class 2
(In-person)

18 May 2026

Module:

- Understanding EV Adoption Pathways
- Financials & Market Economics
- Program Summary and Reflection

Class 2 Assessment
(Online)

19 - 31 May 2026

Graduation at the National Forum: Green Corridor Initiatives

June 2026

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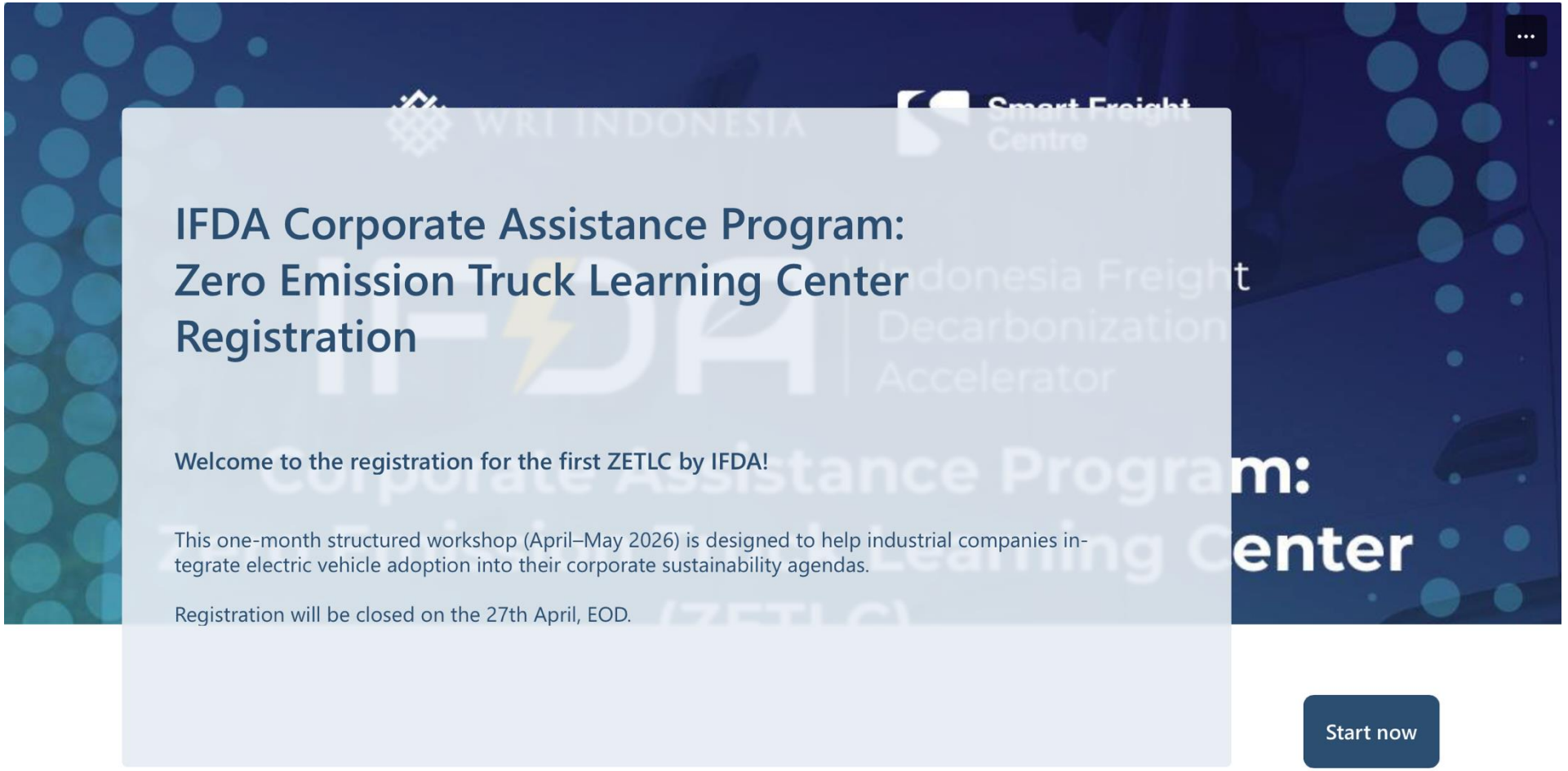
Zero Emission Truck Learning Center (ZETLC)

Registration & Inquiries

To register, please click **this link** or scan the QR code below.
For any further inquiries, contact ifda@wri.org



Registration Link & QR Code

https://bit.ly/ZETLC-Registration

Thank you!

WRI Indonesia is an independent research organization that turns big ideas into actions.

Learn more about us:
wri-Indonesia.org

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