GREEN GATEWAY

Advice for financial institutions

Indicative, non-exhaustive list of *Paris aligned* and *EIB green* cars, vans and trucks under EIB-intermediated finance

European Investment Bank

European Commission

INVESTEU ADVISORY HUB

Background

- **Under European Investment Bank (EIB) intermediated finance** products, such as multi-beneficiary intermediated loans (MBIL) and similar others, the EIB provides loans to its financial institutions (that is, commercial banks, leasing institutions, national promotional banks and others) that on-lend EIB funds to final beneficiaries (that is, small and medium-sized enterprises (SMEs), mid-caps and other priorities).

- The EIB has aligned all financing activities to the goals and principles of the Paris Agreement from 2021 on. Furthermore, the Bank has committed to increase its level of support to climate action and environmental sustainability to above 50% of its overall lending capacity by 2025. These commitments apply also to EIB-intermediated finance products.

- The climate action and environmental sustainability criteria are based on the **EU Taxonomy principles** or, for sectors not yet covered by the EU Taxonomy Delegated Acts, on the Joint Multilateral Development Banks' Methodology for Tracking Climate Mitigation Finance. Sub-operations compliant with such criteria can be allocated under Green Windows of EIB-intermediated finance products.

- For the benefit of EIB financial intermediaries and other financial institutions interested in understanding how EIB interprets aligning its intermediated financing to the Paris Agreement and applies EU Taxonomy principles for greening these financing activities in the transport sector, this note provides an **indicative and non-exhaustive list of cars, vans and trucks that are considered compliant with Paris alignment criteria (*Paris aligned*) and with climate action and environmental sustainability criteria (*EIB green*)** under EIB-intermediated finance products.

Overview of the Paris alignment criteria

Paris aligned

Emission limits to ensure EIB funds are allocated only to mobile assets which are consistent with a pathway towards low greenhouse gas emissions as per the Paris Agreement. Mobile assets dedicated to the transport of fossil fuels are not Paris aligned.

Passenger cars	**Zero-emission** cars and any cars equal to or below: **115 g CO_2/v-km in Worldwide Harmonised Light Vehicle Test Procedure (WLTP) terms** *(alternatively 95 g CO_2/v-km in New European Driving Cycle (NEDC) terms)*
Vans/light commercial vehicles (LCVs)	**Zero-emission** vans and LCVs and any vans and LCVs equal to or below: **182 g CO_2/v-km in WLTP terms** *(alternatively 147 g CO_2/v-km in NEDC terms)*
Trucks	**Zero-emission** trucks and any trucks **equal to or below individual g CO_2/t-km** thresholds for individual truck vehicle subgroups (see slide 13 & 14)
Buses	**Zero-emission** buses and any buses **equal to or below 50 g CO_2/p-km** (diesel buses with high occupancy rates/load factors or hybrids)
Trains	**Electric trains** and any trains **equal to or below 50 g CO_2/p-km** or equal to or below **28.3 g CO_2/t-km** (diesel trains with high load factors)
Inland waterway (IWW) vessels	**Zero-emission** IWW vessels and any IWW vessels **equal to or below 50 g CO_2/p-km** or equal to or below **28.3 g CO_2/t-km** (conventionally powered ships with high load factors)

Overview of the EIB green criteria

EIB green *Emission limits for mobile assets contributing to the climate action and environmental objectives ("Green Window" of EIB-intermediated debt products)*	
Passenger cars	**Zero-emission** cars and any cars **equal to or below 50 g CO_2/v-km** in WLTP terms
Vans/LCVs	**Zero-emission** vans and LCVs and any vans and LCVs **equal to or below 50 g CO_2/v-km** in WLTP terms
Trucks	**Zero-emission** trucks and any trucks **below 50% of the reference g CO_2/t-km value** of the applicable subgroup (see slide 13 & 14)
Buses	**Zero-emission** buses
Trains	**Electric and bimode** trains
IWW vessels	**Zero-emission** vessels and **hybrid or dual fuel** IWW vessels that derive 50% of their energy from zero direct emission fuels or plug-in power. Only for IWW **freight** vessels in addition, any vessels **equal to or below 28.3 g CO2/t-km** (conventionally powered ships with high load factors)

Explaining…

WLTP terms versus NEDC terms

- **WLTP = Worldwide Harmonised Light Vehicle Test Procedure**. Under conditions defined by EU law, the WLTP laboratory test is used to measure fuel consumption and CO_2 emissions from passenger cars, vans and LCVs.

- The old lab test — called the **New European Driving Cycle (NEDC)** — was designed in the 1980s and has since then become outdated due to evolutions in technology and driving conditions.

- Even if the **WLTP represents the standard testing mode in the European Union today, the older vehicles may indicate their CO_2 emission standards in NEDC terms**. Therefore, the Paris aligned and EIB green criteria can be expressed in both WLTP and NEDC terms.

Explaining…

CO_2 emission value indicators

• **g CO_2/v-km** = grams of CO_2 per vehicle - kilometre	…used for cars, vans and LCVs
• **g CO_2/p-km** = grams of CO_2 per passenger - kilometre	…used for public transport (bus, rail and vessels)
• **g CO_2/t-km** = grams of CO_2 per tonne - kilometre transported	…used for trucks, freight trains and freight vessels

Paris aligned passenger car types included

- **Plug-in hybrid vehicles (PHEV)**
- **Hybrid electric vehicles (HEV)** (self-charging hybrids with no plug-in charging system)
- **Smaller and more affordable internal combustion engine (ICE) cars**








Examples of Paris aligned passenger cars

Toyota All-New Yaris	1.5 VVT-i Icon Hybrid Auto
Toyota Prius	1.8 VVT-i Active Hybrid Auto
Suzuki Swace New	1.8 VVT-i SZ-T Hybrid Auto (only HEV type)
Renault Clio E-TECH Hybrid Iconic	140 Auto (only HEV type)
Honda Jazz	1.5 i-MMD Hybrid SR 97 PS eCVT (only HEV type)
Toyota Corolla Hatchback	1.8 VVT-i Icon Tech Hybrid Auto (only HEV type)
Peugeot	208 1.5L BlueHDi Active Premium 100 S&S (only diesel ICE type)
Peugeot 108 Top! 5-Door	1.0L Active 72 (only petrol ICE type)
Volkswagen Golf 8	2.0 TDI Life 115 PS (only diesel ICE type)
Citroen C1	VTi 72 S&S Live 3-Door (only petrol ICE type)
SKODA OCTAVIA Hatch New	2.0 TDI SE L 150 PS SCR (only diesel ICE type)

Dacia Sandero New	TCe 100 Bi-fuel Essential 100 HP (only petrol and LPG ICE type)
Kia the New Picanto	1.0 2 66 BHP (only petrol ICE type)
Audi A3 Saloon	35 TDI Sport 150 PS (only diesel ICE type)
Hyundai KONA Hybrid New	1.6 GDi Hybrid SE Connect 141 PS DCT (only HEV type)
Ford Focus	1.5L EcoBlue Zetec Edition 120 PS (only diesel ICE type)
SEAT Leon 5dr	SE 2.0 TDI 115 PS (only diesel ICE type)
Fiat 500	1.0 Mild Hybrid Connect 70 HP (only HEV type)
Corsa New	1.5 Turbo D SE 102 PS (only diesel ICE type)

EIB green passenger car types included

- **Plug-in hybrid vehicles (PHEV)**

- **Zero-emission vehicles (ZEV)**
  - Battery electric vehicles (BEV)
  - Hydrogen fuel cell electric vehicles (HFCEV








Examples of EIB green passenger cars

Renault ZOE i Play R110 Z.E.50 80 kW Auto
Peugeot e-208 Electric 50 kWh Allure Premium 136 Auto
MINI Electric New 135 kW Level 3 Auto 3-Door
Audi e-tron Sportback 55 quattro S Line 300 kW Auto
Mercedes-Benz EQA New 300 4MATIC AMG Line 228 HP 168 kW Auto
Nissan e-NV200 Combi Evalia 40 kWh Auto 7-Seat
Volkswagen ID.4 Style Pure 52 kWh 148 PS Auto
Tesla Model 3 Long Range AWD Auto
Toyota All New Mirai Fuel Cell Stack Design Plus Pack 134 kW Auto

Toyota Prius Plug-In 1.8 VVT-i Business Edition Plus Hybrid Auto
SEAT Leon Estate FR Sport 1.4 e-HYBRID DSG-auto 204 PS
SKODA SUPERB iV Hatch 1.4 TSI iV SE L 218 PS DSG
Ford All-New Kuga 2.5 Duratec ST-Line X Edition 225 PS PHEV FWD CVT
Volkswagen Arteon Shooting Brake New 1.4 TSI eHybrid R-Line 218 PS DSG
Peugeot 508 SW HYBRID GT Line 225 e-EAT8 S&S Old (PHEV)
Renault Captur E-TECH Launch Edition PHEV 160 Auto
Kia Sorento PHEV 1.6 T-GDi 2 261 HP AWD Auto
Hyundai Santa Fe PHEV 1.6 T-GDi Premium 265 PS 4WD Auto

Paris aligned van and LCV types included

- **ICE vehicles**
- **Ford PHEV**







Examples of Paris aligned vans and LCVs

Ford Tourneo Custom Plug-in Hybrid 1.0 EcoBoost 340 Titanium PHEV L1 H1 126 PS FWD Auto
Ford Transit Custom Kombi 1.0 L PHEV 120 ch (92 kW) PHEV
Fiat Talento Van L2H1 2.0 MultiJet 170 HP Specs
Mercedes Benz Citan 108 CDI LWB Specs
Volkswagen Caddy 5 Cargo Maxi 2.0 TDI 122 HP 4 Motion Specs
Volkswagen Caddy 4 Van L2H1 1.0 TSI Specs
Toyota Proace City Long 1.2 Turbo 110 HP Specs
Citroen Berlingo III Van BlueHDi 75 Specs

Citroen Jumpy 2016 M BlueHDi 100 Specs
Opel Combo E Van L1H1 1.6 Diesel 75 HP Specs
Opel Vivaro C Van L1H1 1.5 Diesel 100 HP Specs
Peugeot Expert Van 2.0 BlueHDi 120 231L Specs
Peugeot Partner 3 PureTech 110 Specs
Renault Kangoo 2 Phase 2 Express Blue dCi 80 Specs
Fiat Doblò Cargo 1.6 MultiJet 105 Specs

EIB green van and LCV types included

- **Zero-emission vehicles (ZEV)**
  - Battery electric vehicles (BEV)

Note: Other models may be(come) available







Examples of EIB green vans and LCVs

Mercedes-Benz eVito
Mercedes-Benz eSprinter
Mercedes Benz EQV 300 Extra Long Specs
Nissan e-NV200 Combi Evalia 40kWh Auto
Renault Kangoo Crew Van Z.E LL21 i-Maxi Z.E 44kW Business Auto
Renault Master 3 Phase 2 Z.E. L1H1 Specs
Ford Transit Trail Double Cab-in-Van 2.0 EcoBlue 350 L3 H3 Trail 170PS FWD SRW

Toyota Proace Electric
Citroën E-Jumpy
Opel Vivaro-e
Opel Zafira Life L2H1 Zafira-e 75kWh Specs
Peugot e-expert
MAN eTGE
Volkswagen e-Crafter

Truck requirements

Axle and chassis configuration		Vehicle subgroup	Cab type	Engine power	**Paris aligned** Do no significant harm = reference value g CO_2/t-km	**EIB green** Significant contribution = 50% of reference value g CO_2/t-km
4 × 2 rigid		4-UD	All	<170 kW	307.23	153.61
		4-RD	Day cab or Sleeper cab	≥170 kW or ≥170 kW and <265 kW	197.16	98.58
		4-LH	Sleeper cab	≥265 kW	105.96	52.98
4 × 2 tractor		5-RD	Day cab or Sleeper cab	All or <265 kW	84.00	42
		5-LH	Sleeper cab	≥265 kW	56.60	**28.3**
6 × 2 rigid		9-RD	Day cab	All	110.98	55.49
		9-LH	Sleeper cab	All	65.16	32.58
6 × 2 tractor		10-RD	Day cab	All	83.26	41.63
		10-LH	Sleeper cab	All	58.26	29.13

- **Any Diesel VI truck not covered in any of these subgroups is currently considered as Paris aligned and any zero-emission truck as EIB green**

Explaining…

- **“UD”** = Urban delivery
- **“RD”** = Regional delivery
- **“LH”** = Long haul
- **“Sleeper cab”** = a type of cab that has a compartment behind the driver’s seat intended to be used for sleeping as reported in accordance with Regulation (European Union) 2018/956
- **“Day cab”** = a type of cab that is not a sleeper cab
- Trucks are divided within Regulation 2019/1242 into 18 different vehicle groups. CO_2 emission standards cover only some large truck categories: 4, 5, 9 and 10. Technically permissible maximum laden mass > 16 t
- If a new heavy-duty vehicle cannot be attributed to a vehicle subgroup because information on the cab type or engine power is not available, it shall be attributed to the LH vehicle subgroup corresponding to its chassis type (rigid lorry or tractor) and axle configuration (4 X 2 or 6 X 2).

How to determine if a truck is Paris aligned?

Zero-emission trucks are always Paris aligned and EIB green, and all major truck manufacturers have developed their first zero-emission models (see slide 12)

For other types of trucks:

The emission levels of trucks are not model specific but are specific to each vehicle. The relevant values are included in the Customer Information File (CIF), which should be available upon the order of the truck, before its delivery

Example of a CIF for a 5-LH tractor with axle configuration of 4 × 2, a sleeper cab and 345 kW engine power.

1.1.	**Vehicle data**	
1.1.1.	**Vehicle identification number (VIN):**	YV2RTY0A0LB320858
1.1.2.	**Vehicle category (N1, N2, N3, M1, M2, M3):**	N3
1.1.3.	**Axle configuration:**	4x2
1.1.4.	**Max. gross vehicle weight (t):**	21.0
1.1.5.	**Vehicle's group:**	5
1.1.6.	**Name and address of manufacturer:**	Volvo Truck Corporation, SE-405 08 Gothenburg, Sweden
1.1.7.	**Model:**	FH 42 T3HA
1.1.8.	**Corrected actual curb mass (kg):**	7763
1.1.9.	**Vocational vehicle (yes/no):**	no
1.1.10.	**Zero emission heavy-duty vehicle (yes/no):**	no
1.1.11.	**Hybrid electric heavy-duty vehicle (yes/no):**	no
1.1.12.	**Dual-fuel vehicle (yes/no):**	no
1.1.13.	**Sleeper cab (yes/no):**	yes

1.2.	**Component, separate technical unit and systems data**	
1.2.1.	**Engine rated power (kW):**	345

2.3	**Specific CO2 emissions [gCO2/tkm]:**	54.5

≤56.6 g CO_2/t-km ⇒ Paris aligned (eligible under EIB-intermediated finance)

EIB green truck types included

- **Battery electric vehicles (BEV)**
- **Catenary trucks**
- **HFCEV**
- **PHEV** – "Green" will depend on emission levels (see slide 17)









Examples of EIB green trucks

Mercedes-Benz eActros
MAN eTGM
Scania catenary trucks (full BEV and PHEC)
Volvo Electric FM, FMX FL and FE
DAF Electric CF and LF (PHEV and HFCEV)
IVECO with Nikola Motors
Renault zero-emission trucks
Newcomers such as Volta Zero and Tesla Semi
Custom vehicles — for example, EMOSS