

Plan to Accelerate Solution (PAS) Green Transport Corridors

Axis: 1. Transitioning Energy, Industry and Transport ▾

Key objective: 2. Accelerating zero¹ and low emission technologies in hard-to-abate sectors ▾

Solution: Global Green Road Corridors (GGRC) / eDutra Brazil

Host initiative: [Global Green Road Corridors \(GGRC\)](#) / [eDutra Brazil- CALSTART/Drive to Zero](#), Smart Freight Center (SFC), C40 laneshift, Volkswagen Truck & Bus, WRI Brazil, WBCSD, ICCT, Brazil Ministry of Transport

Scope: [Addressed scope, such as specific technologies and geographic/sectoral focus, if any.]

- Geographic: Brazil (Rio de Janeiro–São Paulo); this PAS will showcase the eDutra model as a replicable example for other Global Green Road Corridors worldwide. The Global Green Road Corridors (GGRC) Initiative, a global collaboration now encompassing 11 corridors across Europe, Asia, Africa, and the Americas. The initiative leverages the expertise of 11 international organizations (e.g., ITF, ICCT, UNEP, World Bank, EVI) to scale ZE-MHDV infrastructure through blended finance, stakeholder coordination, and policy replication.
- Sectoral: The focus of this PAS is **exclusively on zero-emission road freight**. Medium- and heavy-duty vehicles make up only 4% of the global fleet but produce over one-third of fuel use and nearly three-quarters of particulate pollution, causing 180,000 premature deaths each year. Zero-emission trucks are already commercially available, yet adoption is slowed by high costs, limited infrastructure, and weak policy signals. Focusing efforts on freight corridors will reduce investment risk, maximize infrastructure utilization, and ensure reliable charging that stimulates demand for zero-emission trucks at scale. Concentrating deployment along key routes will make zero-emission freight cleaner, more cost-effective, and faster to scale, while providing long-term market certainty for fleets, investors, and policymakers.
- Other aspects: GGRC supports the goals set out by the Global Memorandum of Understanding (Global MOU) on ZE-MHDVs, which seeks to achieve 100% new zero-emission medium- and heavy-duty vehicle (ZE-MHDV) sales by 2040, with an interim goal of 30% new ZE-MHDV sales by 2030. GGRC also leverages on the GLEC framework for zero emission accounting in the road freight sector.

Levers assessment- specific to e-Dutra Brazil: (each lever is described in the guidance document)

- **Risk-informed decision-making:** High maturity ▾
 - Rationale: Corridor backbones include data strategy (TCO, operational performance, grid integration) but full datasets will only emerge after initial demonstrations.
- **Technology shifts:** Medium maturity ▾

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- *Rationale: ~30 ZE truck models in Brazil; (and 551 ZE truck and van models available globally) corridor-scale deployment will demonstrate feasibility of long-haul electrification, signalling the market to OEMs for investment in production capacity.*
- **Knowledge & Capacity building:** Medium maturity ▾
 - *Rationale: Monitoring, evaluation, and dissemination are integral to e-Dutra; GGRC enables global knowledge transfer; workforce readiness needs scaling. Capacity building for enabling policies and shift in regulation is available, but needs to be channelled preferably through the Global MOU network.*
- **Inclusive decision-making governance & design:** High maturity ▾
 - *Rationale: Consortium model includes shippers, OEMs, governments, NGOs, utilities, finance; with specific governance including civil society.*
- **Standards & Taxonomies:** Medium maturity ▾
 - *Rationale: Data collection standards for reporting, TCO frameworks are emerging, but data sharing between public and private sector is needed.*
- **Supply:** Medium maturity ▾
 - *Rationale: OEMs (VW, Scania) and CPOs engaged; supply exists but requires aggregated demand and de-risking to scale.*
- **Demand:** Medium maturity ▾
 - *Rationale: Global shippers (Amazon, Maersk and others) engaged; demand aggregation underway; broader uptake depends on enabling policies and finance, and visibility on TCO parity.*
- **Public/private finance:** Medium maturity ▾
 - *Rationale: Infrastructure investments viable (<2-year payback); procurement and de-risking tools under design; public finance support still limited.*
- **Partnerships and collaboration:** High maturity ▾
 - *Rationale: A eDutra consortium is being developed for the Dutra corridor, to be launched at COP30, with opportunities for additional stakeholders to join after the event. Globally, a broad multi-stakeholder coalition has been established, linked with more than 11 corridors globally under the GGRC framework supported by the growing Global MOU network of 41 nations and 280+ companies and knowledge partners (launched at COP26).*
- **Policy & regulatory:** Medium maturity ▾
 - *Rationale: Engagement with federal and state governments has begun, and the first phase of the eDutra will inform future regulatory improvements. To advance progress, policy ambition must be translated into concrete national supply-side measures—such as vehicle standards and ZEV sales targets—supported by coordinated infrastructure planning and finance. Within the Global MOU network, countries collaborate to design and implement such regulations, creating market certainty, driving investment, and sustaining momentum toward zero-emission freight.*
- **Public opinion:** Medium maturity ▾

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- *Rationale: High-profile corridor with clear health, jobs, and climate benefits; requires targeted communications.*

Expected impact of this plan on the 2030 targets (if any): [Details on the expected impact of this plan, including which levers it focus and target/KPIs from the 2030 Climate Solutions, GST, SDGs or other processes] High

- Enable 5,000+ zero-emission truck trips daily on e-Dutra corridor.
- Avoid ~156,000 tCO₂e annually (~73,000 passenger cars equivalent).
- Unlock >\$500M USD investment in charging and logistics transformation.
- Demonstrate enabling conditions for national expansion and global replication across GGRC.
- Contribute to net-zero transport by 2050 with all new ZE truck sales by 2040.
- Advance SDGs 13, 3, 8, 5, 9, 11, 17 (climate, health, decent work, gender equity, industry/innovation, sustainable cities, partnerships).

Levers & KPIs (for 2027 / 2030 tracking)

- Policy & Regulation: National ZEV truck sales targets; ZE standards; streamlined permits: KPI: ZEV adopted; # of aligned state policies.
- Infrastructure: High-power charging along corridor; grid upgrades; renewable PPAs. KPIs: # sites / charge points (≥350 kW); installed capacity (MW); % renewable energy for charging.
- Finance & De-risking: Blended finance, guarantees, concessional capital. KPIs: >\$500M mobilized by 2028; >\$1B by 2030.
- Market Activation: OEM supply commitments; fleet/shippers MOUs; TCO tools. KPIs: # anchor fleets & shippers; ≥2,000 ZE trucks ordered/operational by 2030.
- Operations & Reliability: Depot/public charging uptime; turn-times. KPIs: ≥97% uptime; avg. dwell time (min); on-time delivery rate.
- Emissions & Air Quality: KPIs: ≥156 ktCO₂e/yr avoided by 2027; cumulative Mt by 2030; NOx/PM2.5 reduction estimates published annually.
- Jobs & Inclusion: Workforce training and SME support. KPIs: # jobs supported; ≥30% women in trainings/leadership roles.
- Governance & Transparency: Corridor data platform; quarterly KPI reporting. KPIs: Platform live; quarterly public dashboards aligned with GST and 2030 climate tracking.

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Output	Action Scope	Action	Type of action	Implementation Lever	Responsible	Time horizon	Stakeholder engagement ¹	Committed Stakeholders
Stakeholder mapping & consortium launch	Identification of key stakeholders (fleets, OEMs, CPOs, gov, finance, utilities)	Launch e-Dutra Consortium & Charter at COP30	New action	Partnerships	CALSTART, SFC, VWTB, C40	November...	Multi-stakeholder...	Fleets, OEMs, NGOs, governments
Stakeholder knowledge requirements	Define stakeholder info needs (TCO, technical, finance, regulatory)	Develop standardised data & evaluation framework	New action	Risk-informed...	SFC, ICCT, CALSTART	June 20...	Multi-stakeholder...	Shippers, OEMs, finance, regulators
Collection of demonstration knowledge	Corridor pilots & backbone	Deploy 3–6 charging hubs ; run OEM–shipper pilots (VW, Scania, Volta)	Existing a...	Supply	CALSTART, C40, SFC VWTB	June 20...	Multi-stakeholder...	OEMs, shippers, CPOs

¹ Such as countries, companies, investors, cities and local governments, technical institutions, MDBs, regulators & public agencies, utilities & system operators, youth & indigenous groups, multi-stakeholders platform (non-exhaustive)

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Application & aggregation	Global knowledge sharing	Curate GGRC knowledge base from e-Dutra pilots	Existing a...	Knowledge & ...	eDutra coalition	Novemb...	Multi-stakehol...	International initiatives
Effective dissemination	Targeted knowledge provision	Launch knowledge dissemination programme (COP30, Brazil workshops, GGRC channels, Brazil e-FAST)	New action	Knowledge & ...	CALSTART, SFC, WRI	Novemb...	Multi-stakehol...	All stakeholder groups
Scale-up preparation	Aggregate demand, design finance tools	Develop market aggregation & de-risking mechanisms	New action	Demand	SFC, C40 CALSTART	June 20...	Multi-stakehol...	Shippers, financiers, governments
Large-scale implementation	Corridor-wide buildout	Secure finance; implement large-scale charging; expand fleets	New action	Public/private ...	CALSTART, SFC, C40, OEMs, CPOs	Novemb...	Multi-stakehol...	All stakeholder groups