

Advancing Green Customs: Performance Measure

Turn sustainability into a competitive weapon by digitizing trade, cutting carbon, delays, and waste across the supply chain. Green trade must be faster, cheaper, and accessible for MSMEs and major exporters alike, positioning CAREC economies to win in a climate-conscious global market.

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25 November 2025



Strategic Goal

- Transform trade modernization into a climate-positive system.
- Embed sustainability inside digital trade infrastructure.
- Every electronic transaction = faster processing + measurable environmental gain.



Strategic Alignment

- Anchored on SDGs & MEAs (Basel, Rotterdam, CITES).
- Supports UNESCAP Green Trade Facilitation Principles.
- Converts policy commitments into system functions.





Core Strategy Pillars

- Paperless Trade – digital submissions.
- Environmental Compliance Automation – MEA validation.
- Green Transport Optimization – reduce idle time.
- Data-Driven Sustainability Monitoring – carbon/paper KPIs.
- Capacity Building – SMEs, brokers, regulators.

KPI matrix for Green Trade Compliance

Key Area	KPI	Definition / Metric	Target / Benchmark	Data Source / Collection Method
MEA Compliance	% of shipments compliant with MEA requirements	Number of shipments meeting MEA regulations ÷ total shipments of environmentally sensitive goods × 100	≥ 95% compliance	Customs clearance records, inspection reports, digital submission in Single Window
	% of high-risk shipments inspected	Number of high-risk consignments inspected ÷ total high-risk consignments identified × 100	≥ 90%	Risk assessment system, inspection logs
Risk Management & Enforcement	Average clearance time for compliant shipments	Total time from submission to release for compliant shipments ÷ number of compliant shipments	≤ baseline + 10% reduction	Single Window system timestamps, customs IT system
	% of environmentally sensitive shipments processed digitally	Number of shipments processed via electronic workflows ÷ total shipments × 100	≥ 95%	Single Window/ERP logs, electronic manifests
Digital Integration	% of MEA reports submitted on time	Number of MEA reports submitted within the required period ÷ total reports × 100	100%	Digital reporting module, customs/MEAs records
	# of customs officers trained on Green Customs & MEA compliance	Total officers completing structured training programs	≥ 80% of relevant staff per year	Training attendance records, certification logs
Capacity Building	# of stakeholder awareness sessions conducted	Total workshops, seminars, or outreach events with traders & stakeholders	≥ 4 sessions/year	Training/event records, feedback forms
	% of KPIs reviewed quarterly	Number of KPIs reviewed & updated ÷ total KPIs × 100	100% quarterly	Management reports, KPI dashboards
Monitoring & Continuous Improvement	# of compliance improvement initiatives implemented	Total actionable measures taken based on KPI insights	≥ 3 initiatives/year	KPI reports, project/activity logs
	% reduction in violations of hazardous/environmentally sensitive goods	Reduction in detected violations compared to previous year	≥ 10% annual reduction	Inspection reports, enforcement records
Sustainability & Green Practices	# of recognition/incentive awards for compliant traders	Total awards issued to traders demonstrating exemplary green compliance	≥ 10/year	Customs award records, public announcements

Green Customs

- Enhances 5 core customs stages with environmental checkpoints.
- Risk profiling for hazardous cargo.
- Facilitate the Clean, Filter the Risky.



Green Customs KPIs

Performance Area	Key Performance Indicator (KPI)	Measurement Definition	Data Source (via CAREC Digital Trade Platform)	Reporting Frequency	Primary Beneficiary Agencies
I. Trade Facilitation Efficiency (with Environmental Lens)	Customs Clearance Time (Five-Stage TRS)	Average processing time from acceptance to release of goods	Timestamp logs from e-manifest, declaration, and release systems	Monthly	Customs Administrations, Port Authorities, Traders
	Automated Green Lane Utilization Rate	Share of shipments cleared through low-risk and climate-compliant channels	Risk management system routing data	Monthly	Customs Risk Units, Brokers
II. Environmental Compliance and Enforcement	CITES / Hazardous Goods Interception Rate	Ratio of detected environmental violations to total MEA-relevant consignments	Seizure and inspection records with HS code filters	Quarterly	Customs Enforcement, Environmental Agencies
	Illegal Waste / Chemical Return-to-Sender Actions	Number of shipments denied entry or rerouted due to Basel/Rotterdam non-compliance	Return order and re-export records	Quarterly	Customs, Local Government Units, Border Control Authorities
III. Green Operations and Resource Efficiency	Paperless Transaction Ratio	Percentage of customs declarations and permits processed digitally without paper	e-signature and e-declaration usage data	Monthly	Customs IT Divisions, Traders, Brokers
	Fuel and Travel Reduction for Documentary Processing	Estimated distance or fuel saved through digital submissions compared to in-person filing	Geo-tagged system logins vs. baseline office visit data	Quarterly	Traders, Brokers
	Internal Energy and Consumables Reduction	Average paper and ink consumption per customs transaction	Administrative inventory and resource utilization logs	Monthly	Customs Administration

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IV. Inter-Agency Collaboration and Data Exchange	Environmental Data Exchange Speed	Average response time for information-sharing requests between Customs and Environmental Agencies	API response timestamps and transaction records	Monthly	Customs, Environment, Agriculture, and Quarantine Units
	Cross-Agency Clearance Synchronization Rate	Percentage of consignments with synchronized customs and environmental approvals without manual follow-ups	Cross-clearance synchronization logs	Monthly	All Border and Regulatory Agencies
V. Capacity Building and Stakeholder Readiness	Officer Training Completion on MEA Enforcement	Share of customs personnel trained or certified on environmental enforcement protocols	HR and Learning Management System (LMS) records	Quarterly	Customs HR and Enforcement Divisions
	Trader and Broker Green Compliance Training Coverage	Percentage of active brokers and traders participating in environmental compliance training	CAREC training attendance database	Quarterly	Private Sector Associations, Customs Administrations
VI. User Experience and Compliance Behaviour	Voluntary Disclosure and Self-Correction Rate	Number of traders voluntarily correcting declarations after automated environmental alerts	Modification logs recorded prior to enforcement action	Monthly	Traders, Customs Audit Units
	Customer Satisfaction Index (Green Trade Facilitation)	Average satisfaction score from users engaging with environmental compliance checkpoints	Post-clearance electronic survey results		



Next Steps - Operationalizing the Green Trade KPI Framework

- **Establish a regional baseline and standardized reporting system** to harmonize data collection, ensure interoperability, and enable comparable performance tracking across CAREC members.
- **Pilot digital integration of key indicators** through CAREC's trade facilitation platforms, enabling real-time monitoring of clearance times, permit validation, and inter-agency collaboration.
- **Institutionalize capacity building and regular performance reviews** under the TFCCC, supported by a biennial *CAREC Green Trade Progress Report* to sustain accountability and regional learning.