10th Regional Environmentally Sustainable Transport Forum in Asia

16 March 2017
Vientiane, Lao PDR

Green Freight in Asia in the Context of the Sustainable Development Goals

Friedel Sehlleier

ASEAN-German Technical Cooperation Project
“Energy Efficiency and Climate Change Mitigation in the Land Transport Sector”
Freight transport is a...

**Key enabler** of trade and development, rural-urban connectivity, regional integration, goods distribution, etc.

**Key emitter** of greenhouse gases and air pollutants
The Climate Change Challenge for Freight Transport

Transport Volumes 2015-2050

- Passenger: 135% growth
- Freight: 230% growth

Freight share of transport emissions:

- 2015: 42%
- 2050: 50%

Source: ITF Transport Outlook 2017
Freight Transport Emissions vs Attention

Need to raise the profile of green freight

SHARE OF TRANSPORT CO2 EMISSIONS

SHARE OF ENVIRONMENTAL POLICY ATTENTION

Source: based on ITF 2017

Source: experts’ perception
A Matter of Perspective

Green Freight is a concept to...

- reduce environmental impacts of freight without compromising its development benefits
- enhance efficiency of the economy with environmental co-benefits
Aspects of a green freight strategy

Covering all elements of Avoid-Shift-Improve

Reducing freight transport intensity
Improving vehicle utilisation
Switching energy sources
Shifting freight to greener modes
Increasing energy efficiency

Source: based on A. Mc Kinnon, Government Role in Sustainable Logistics, 2015
Green Freight for Sustainable Development

GF helps a wide range of public policy goals, including the SDGs

1. **No Poverty**
   - Help transport SMEs become more competitive

2. **Zero Hunger**
   - Supporting self-sufficiency reduces ‘food miles’

3. **Good Health and Well-being**
   - Eco-driving training leads to safer driving behaviours
Green Freight’s contribution to the SDGs

Better maintenance practices can reduce spillage of fuel and other harmful substances from vehicles

Improve fuel efficiency of trucks

Greener and more efficient freight transport brings down transport and logistics costs
Green Freight’s contribution to the SDGs

**9 Industry, Innovation and Infrastructure**
Expansion of railway networks promotes mode shifting and facilitates trade

**11 Sustainable Cities and Communities**
More efficient urban logistics reduces congestion and air pollution

**12 Responsible Consumption and Production**
e.g. green packaging, energy efficient warehouses, minimising waste through reverse logistics
Green Freight’s contribution to the SDGs

13 CLIMATE ACTION
Green freight reduces greenhouse gas emissions

14 LIFE BELOW WATER
Environment-friendly practices in shipping and port operations protect marine life

15 LIFE ON LAND
New freight corridors should minimise fragmentation of habitats and be complemented with afforestation efforts
Green Freight’s contribution to the SDGs

Public-private partnerships are needed to facilitate industry-wide change
Green Freight Links to Other International Processes

Making freight more sustainable promotes achievement of multiple international development agendas

- Bangkok 2020 Declaration
- New Urban Agenda
- Paris Agreement
- Decade of Action for Road Safety
- Addis Ababa Action Agenda
- Sendai Framework for Disaster Risk Reduction
- Vienna Programme of Action for LLDCs
- SIDS Accelerated Modalities of Action
- Istanbul Programme of Action for LDCs
# Current Status of Green Freight Initiatives in Asia

## National initiatives and policy gaps

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Source: Authors’ review
Way Forward for Green Freight in Asia

- Keep increasing awareness and policy action
- Integrate sustainability in freight system planning
- Work across ministries and partnership with enterprises
- Adopt a regional view to fix common issues collectively
- Increase action on sustainable urban freight
- Use standardised indicators and improve data
Thank you for your attention!

For information/ inquiries, please contact:
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ASEAN Sustainable Transport: Reading and Reference List

http://www.giz.de/expertise/html/2067.html

www.TransportAndClimateChange.org

www.facebook.com/TransportClimateASEAN
As a federal enterprise, GIZ supports the German Government in achieving its objectives in the field of international cooperation for sustainable development.

Published by
Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
Registered offices, Bonn and Eschborn, Germany
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