



Introductory Roundtable

Transport: Session 0

Jacob Teter

Jakarta, 17 July 2018

 #energyefficientworld

1. Where to start: Understanding transport energy use
2. Where to start: Understanding and improving the energy efficiency of transport services
3. Toolkit: Data to support policy making and evaluation
4. What are the steps: Sustainable urban transport planning
5. Toolkit: Building the case to finance energy efficient transport policies
6. Activity: Sustainable urban transport projects
Site visit: TransJakarta
7. Deep dive: Policy instruments available to “improve” the fuel economy of road vehicles
8. What are the steps: How to develop policies
9. Deep dive: Fuel economy policies for Heavy-Duty Vehicles (HDVs)
10. Activity: Improving fuel economy
11. Deep dive: Electric Vehicle Initiative (EVI)
12. Review and Energy Efficiency Quiz



Jacob Teter

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Luis Lopez

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Meet our guest speakers



Retno Wihanesta
WRI



Yoga Adiwinarto
ITDP

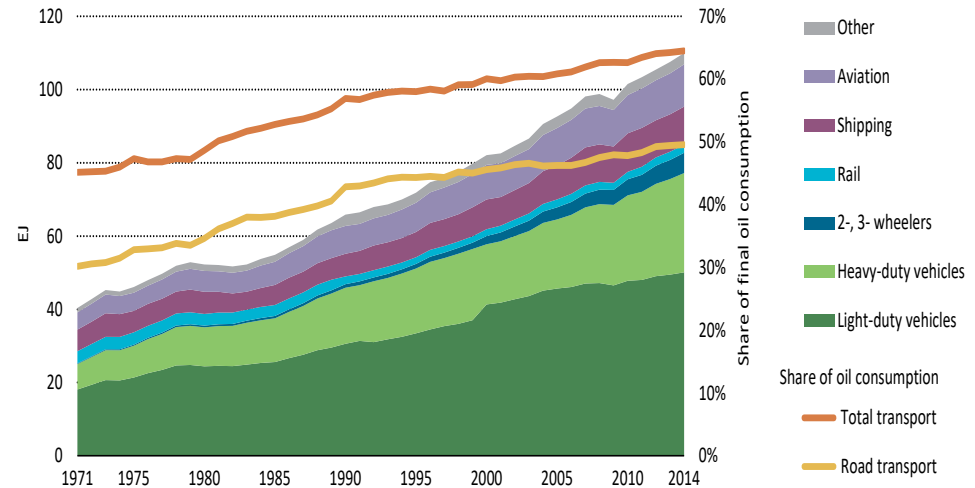


Udo Beran
GiZ

1. Understanding transport energy use

Jacob Teter - IEA, Luis Lopez - IEA

- Analyse the historical trends for energy consumption in the transport sector and the impact of modal choice.
- Introductory quiz on transport, energy use, and emissions.



Jacob Teter - IEA, Luis Lopez - IEA

- An introduction to the ASIF Approach – linking activity and fuel use.
- Understand the drivers of energy use in transport, and the role of transport policy and planning, focusing on the role of “avoid and shift” policies.
- What avoid-shift policies have been tried in your country/city; what has worked; and what have been the barriers to success?



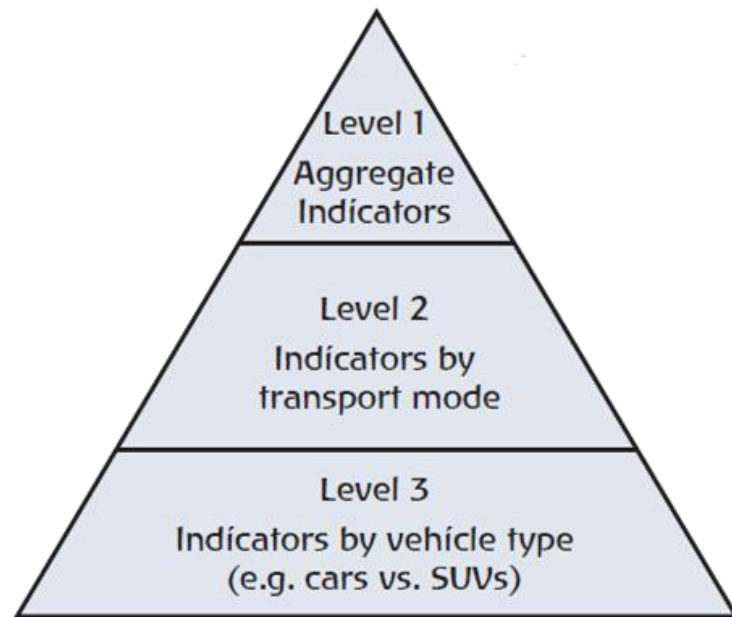
<https://www.itdp.org/category/location/indonesia/jakarta/>

3. Data to support policy making and evaluation Till's two studies



Jacob Teter - IEA, Luis Lopez - IEA

- Data for effective policy making for transport energy efficiency – what's needed, where to find it and how to use it.
- *What data sources for your country exists and how can these be used to inform policy making?*



http://www.iea.org/publications/freepublications/publication/IEA_EnergyEfficiencyIndicatorsFundamentalsOnStatistics.pdf

4. Sustainable urban transport planning



Jacob Teter – IEA,

Retno Wihanesta – WRI, Yoga Adiwinarto – ITDP

- Creating high-quality, efficient public transport with changing demand for shared mobility through public support or monetary policies.
- *What are the modal shares in public transit in major cities in your country? What factors limit the potential for further uptake of public transit and non-motorised transport in these cities?*
- Participant presentation: *Le Nhan, Transport Development and Strategy Institute, Vietnam*

5. Building the case to finance energy efficient transport policies

Luis Lopez – IEA

Udo Beran – GIZ, Yoga Adiwinarto – ITDP

- Prioritising key policies at each jurisdictional level, incorporating: political feasibility, effectiveness, monetary costs & benefits and co-benefits.
- Participant presentation: *Novita Sari – GIZ Advisor to ICCTF*



TransJakarta, Indonesia

<https://www.reep.org/projects/implementing-low-carbon-public-transport-jakarta>

6. Activity: Sustainable urban transport projects

Jacob Teter – IEA, Luis Lopez – IEA

- Sustainable urban transport budgeting
- Participants form groups to propose sustainable transport projects in a city in their home country / region.
- Presentations and feedback Wednesday morning

Sustainable Transport Investment Plan				
Available investment amount =		\$50,000,000		
Intervention	Unit cost	Units	No. of units	Cost (US\$)
 Underground metro rail	\$200,000,000	Per km		\$0.00
 Elevated metro rail	\$150,000,000	Per km		\$0.00
 Elevated light rail	\$100,000,000	Per km		\$0.00
 At-grade light rail	\$50,000,000	Per km		\$0.00
 Bus rapid transit	\$5,000,000	Per km		\$0.00
 Greenway	\$300,000	Per km		\$0.00
 Footpath upgrade	\$75,000	Per km		\$0.00
 On-street parking system	\$200,000	Per km		\$0.00
 Congestion pricing	\$5,000,000	Per km ²		\$0.00
 Traffic calming infrastructure	\$150,000	Per km		\$0.00
 Car-free day event	\$20,000	Per major neighborhood per year		\$0.00
 Bicycle sharing system	\$20,000	Per station (10 bikes per station)		\$0.00
 Bicycle distribution program	\$200	Per bicycle distributed		\$0.00
 Cycle way infrastructure	\$100,000	Per km		\$0.00
 Bicycle parking infrastructure	\$1,000	Per station (10 bicycle capacity)		\$0.00
 New clean diesel bus fleet (12-m vehicles)	\$100,000	Per bus		\$0.00
 New electric buses (12-m buses)	\$350,000	Per bus		\$0.00
 Modern pedicab program	\$800	Per pedicab		\$0.00
			Total	\$0.00
			Remaining budget	\$50,000,000.00

6a. Presentations, Where can I get help?



Jacob Teter – IEA, Luis Lopez – IEA

- Presentation of sustainable urban transport projects
- “Avoid-shift” collaboration platforms
 - Urban Transport

Time	Agenda	PIC
13.30 – 13.50	Opening remarks	Transjakarta Director of Operations and Transport Team Lead
13.50 – 14.30	Presentation on Transjakarta Busway	Director of Operations
14.30 – 15.15	Questions and Answers	Transjakarta Team
15.15 – 15.45	Visit to Transjakarta Facility	Transjakarta Team
15.45– 16.00	Closing remarks	Director of Operations

7. Policy instruments available to “improve” fuel economy of road vehicles

Jacob Teter – IEA, Luis Lopez – IEA

- **Fuels:** fuel subsidy reform; fuel taxes; fuel quality standards
- *How much of an impact do fuel subsidies have on transport energy efficiency, and how have other countries' successfully moved from fuel subsidies to taxation?*
- **Vehicles:** fuel economy regulations; emission standards; differentiated vehicle taxes; and supporting zero emission vehicles.



8. What are the next steps? How to develop policies



Jacob Teter – IEA, Luis Lopez – IEA

- Benchmarking historical fuel economies
- Setting targets (fuel economy costs and benefits, rationale of GFEI targets)
- Defining policy priorities according to regional needs
- Monitoring, compliance and enforcement

9. Deep-Dive: Fuel economy policies for heavy-duty vehicles

Jacob Teter – IEA

- Benchmarking: vehicle segmentation and duty cycles
- Modelling tools: VECTO / GEM
- Policy design



<https://www.theicct.org/>

10. Activity: Improving fuel economy



Your Minister asks you to improve fuel economy in your country.

What would YOU do?

Design a basic policy roadmap to improve fuel economy
(and/or reduce pollutant emissions) in your country.

10a Short presentations, Where can I get help



- Short presentations
- “Improve” collaboration platforms
 - Global Fuel Economy Initiative

11. Electric Vehicle Initiative (EVI): an introduction

Jacob Teter – IEA

- Scaling up EV uptake in developing countries
- Presentation of a project being developed by the IEA and the EVI with the Global Environment Facility (GEF)
- Participant presentation: *Nawaraj Chhetri – UNEP Bhutan*



Electric
Vehicles
Initiative



EV Pilot City
Programme

12. Review and quiz



Jacob Teter and Luis Lopez – IEA

Tell us something about yourself in one minute

- Name
- Background
- Current work area
- How do you travel to work?
- How would you like to travel to work?

Making the most of your week



- Be on time
- Participate in the conversation – share ideas, ask questions and listen
- Network and make connections
- Join the Online E4 EE Community –
<https://community.oecd.org/community/ieae4community>
- Enjoy!



**Join the online conversation at #energyefficientworld and #IEA
or follow the IEA on LinkedIn**





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