Energy Efficiency Training Week Introductory Roundtable

Julie Cammell

Paris, 15 May 2018

IEA #energyefficientworld

Energy Efficiency Training Week: Transport

1. Where to start: Understanding transport energy use
2. Where to start: Calculating energy use and avoid-shift policies for energy efficiency
3. Toolkit: Policy case studies for avoid-shift: congestion charging
4. Toolkit: Data to support policy making and evaluation

    Group exercise: Sustainable urban transport budgeting
5. Toolkit: Building the case to finance energy efficient transport policies
6. Challenging the impacts of fuel subsidies and taxation

    Site visit: Autolib'
7. Toolkit: Improving the fuel efficiency of cars
8. Electric Vehicle Initiative (EVI): an introduction
9. What are the next steps? How to develop policies
10. Fuel economy policies for heavy-duty vehicles
11. Where can I get help
12. Review and quiz

Meet your trainers

Jacob Teter
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Till Bunsen
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Julie Cammell
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Meet our guest speakers

Dirk van Amelsfort

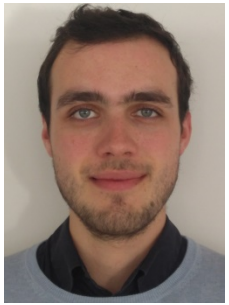
WSP

Neil Valentine

European Investment Bank (EIB)

Pierpaolo Cazzola

IEA



Sacha Scheffer

IEA

Felipe Rodríguez

International Council on Clean Transportation (ICCT)

Wei Shiuen

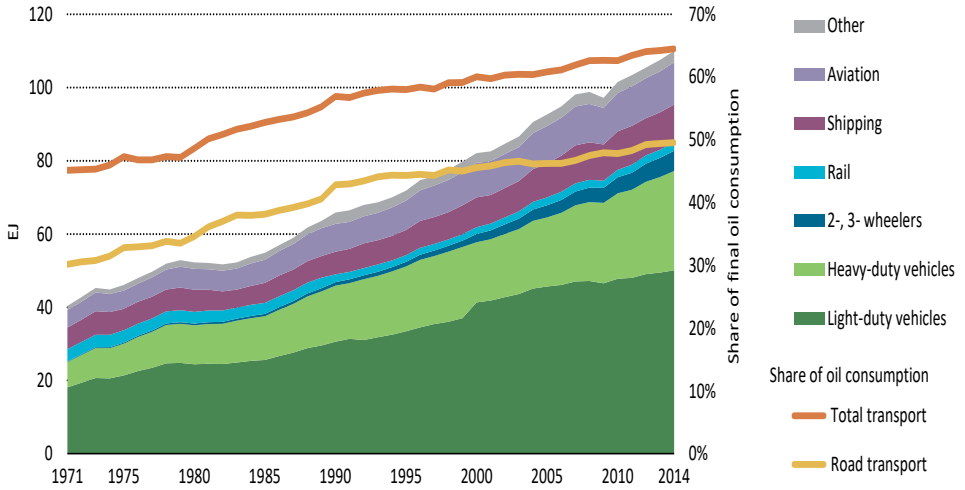
International Transport Forum (ITF)

1. Understanding transport energy use

- *Jacob Teter – 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.



2. Calculating energy use and avoid-shift policies for energy efficiency

Till Bunsen-IEA, Julie Cammell – IEA

- An introduction to the ASIF Approach – linking activity and fuel use.
- Understand the drivers and demands of energy use in transport, and the role of “avoid and shift” policies in influencing energy demand.
- 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. Policy case studies for avoid-shift: Congestion charging

Dirk van Amelsfort – WSP

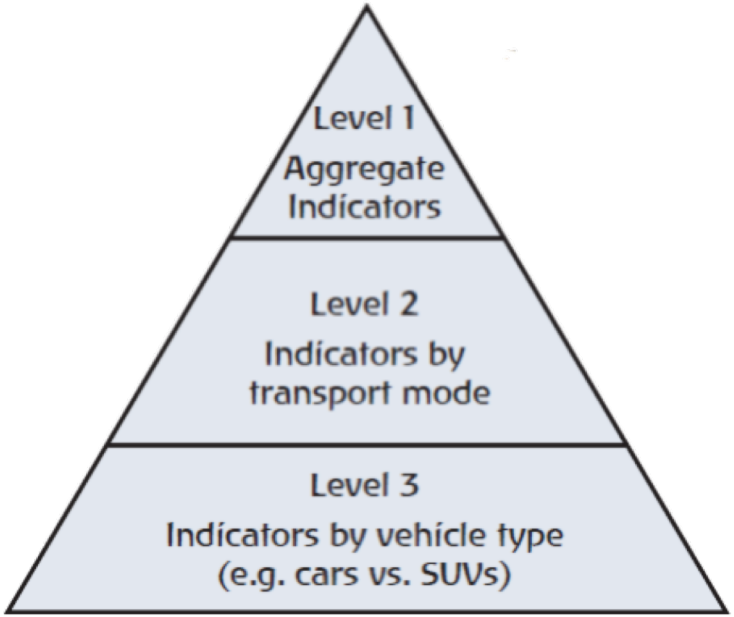
- What is congestion charging? A role for congestion charging in transport policy. Case studies in various global cities. What and how to design congestion charging.

- Presentation from *Cissy Xie: 谢茜*, (Administrative Centre for China's Agenda 21): Vehicle license plate lotteries and registration caps in Chinese cities

4. Data to support policy making and evaluation

Till Bunsen – IEA

- What data do you need, where can you find it, and how can you use it for effective policy making for transport energy efficiency?
- 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

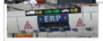
Group exercise

Jacob Teter – 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

5. Building the case to finance energy efficient transport policies

Neil Valentine – European Investment Bank (EIB)

- Prioritising key policies at each jurisdictional level, incorporating: political feasibility, effectiveness, monetary costs & benefits and co-benefits.

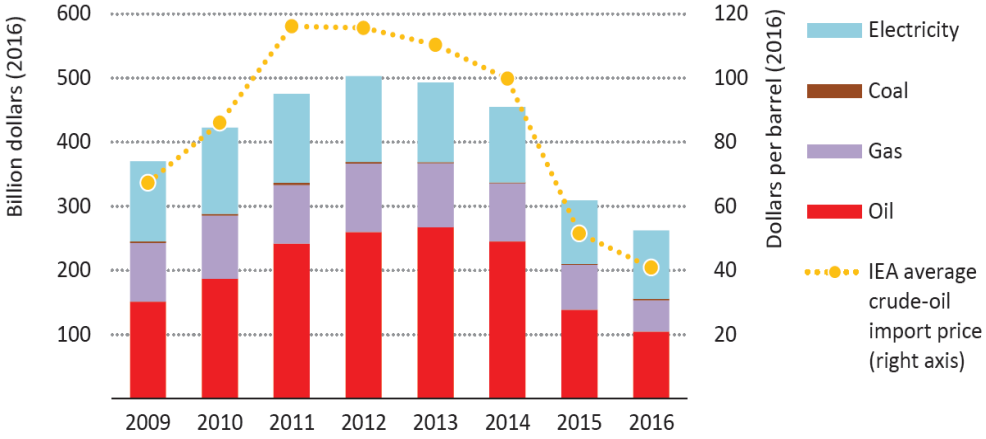
Lucknow Metro, India
http://www.eib.org/stories/tuk-tuks-and-metros

6. Challenging the impacts of fuel subsidies and taxation

Jacob Teter & Till Bunsen – IEA

- How much of an impact do fuel subsidie have on transport energy efficiency, anc how have countries successfully moved from fuel subsidies to taxation?

- Participant presentation:
  Mónica Morales
  (Manager - The Program For Energy Savings In The Power Sector):
  Mexico's fuel subsidy reform policies



Site visit: Autolib'

www.autolib.eu

7. Policy instruments to improve the fuel efficiency of cars

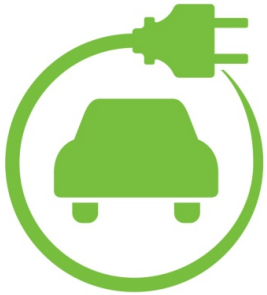
Jacob Teter – IEA

- Fuel taxes; fuel economy regulations; differentiated vehicle taxes; and supporting zero emission vehicles.
- What policies are already implemented in your country; what are the main goals for each and how effective is each policy in meeting these goals?
- How stringent are they, by international standards?
- What other policies should your country implement?

8. Electric Vehicle Initiative (EVI): an introduction

Pierpaolo Cazzola – 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)



Electric Vehicles Initiative

EV Pilot City Programme

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

Sacha Scheffer – 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

10. Fuel economy policies for heavy-duty vehicles

Felipe Rodríguez – The International Council on Clean Transportation (ICCT)

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

https://www.theicct.org/

11. Where can I get help?

Wei Shiuen – International Transport Forum (ITF)

- International cooperation supporting policy development in developing regions and engagement in in sustainable urban mobility

12. Review and quiz

Jacob Teter, Till Bunsen & Julie Cammell – IEA

One minute roundtable introductions

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
- Can fill up drink bottles from downstairs (level below registration)
- Enjoy!

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

www.iea.org

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