Environmental - Economic instruments in the Environmental Accounts



Viveka Palm, Statistics Sweden



Agenda today

- Purpose: Show progress since last meeting
- Environmental taxes, outcome paper
- Resource taxes for next meeting
- Environmental transfers, outcome paper I
- Countries to test methods



Instruments

- Economic instruments
 - o Taxes
 - Transfers (earlier Subsidies)
 - Emission permits, green certificates
- Legal instruments
 - o **Sanctions**
 - o Crimes
 - o Regulations
- Informative instruments
 - Labelling



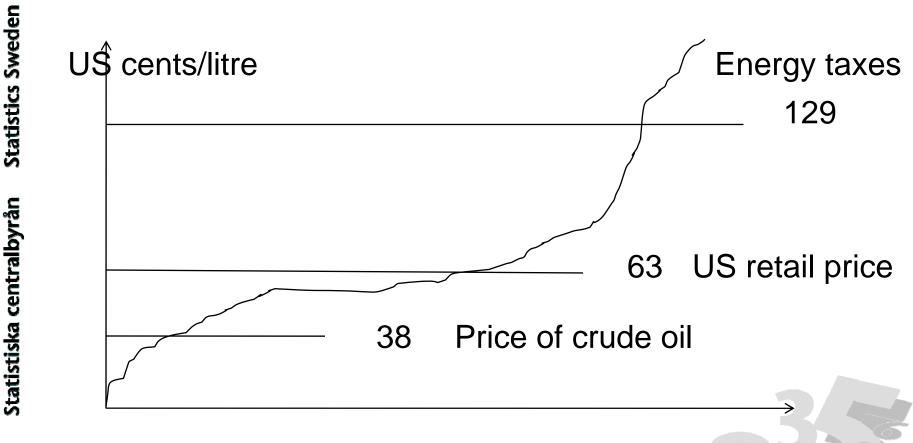
OECD/EEA database on instruments for environmental policy and resource management

www2.oecd.org/ecoinst/queries/index.htm





International gasoline prices 2007, by country, www.gtz.de/fuelprices



Environmentally relevant economic instruments



- Environmental taxes (Official statistics)
- Environmental transfers (Official statistics)
 - -Environmentally motivated
 - Potentially environmentally harmful, pilots
- → Coming:
- Emission permits



Environmental taxes

- Identify taxes under the OECD and EUROSTAT (2001) definition:
 - "...it has been chosen to single out the **tax bases** that seem to have a particular environmental relevance, and to consider all taxes levied on these tax bases as environmentally related regardless of the motives behind their introduction, their names etc."
 - → Motive not of concern
 - → Depend on the tax base and increases of price
- Allocate environmental taxes by industry
- Classify as Energy, Transport, Pollution and Resource

Measured or estimated emissions to air

- Measured or estimated NO_x emissions
- SO₂ content of fossil fuels
- Other measured or estimated emissions to air

Ozone depleting substances (e.g. CFC or halon)

Measured or estimated effluents to water

- Measured or estimated effluents of oxydizeable matters (BOD, COD)
- Other measured or estimated effluents to water
- Effluent collection and treatment, fixed annual taxes

Certain non-point sources of water pollution

- Pesticides (Based on e.g. chemical content, price or volume)
- Artificial fertilisers (Based e.g. on phosphorus or nitrogen content or price)
- Manure

Waste management

- Waste management in general (e.g. collection or treatment taxes)
- Waste management, individual products (e.g. packaging, beverage containers)

Noise (e.g. aircraft take-off and landings)

Energy products

- Energy products used for transport purposes
 - Unleaded petrol
 - Leaded petrol
 - Diesel
 - Other energy products for transport purposes (e.g. LPG or natural gas)
- Energy products used for stationary purposes
 - Light fuel oil
 - Heavy fuel oil
 - Natural gas
 - Coal
 - Coke
 - Biofuels
 - Other fuels for stationary use
 - Electricity consumption
 - Electricity production
 - District heat consumption
 - District heat production

Transport

- Motor vehicles, one-off import or sales taxes
- Registration or use of motor vehicles, recurrent (e.g. yearly) taxes

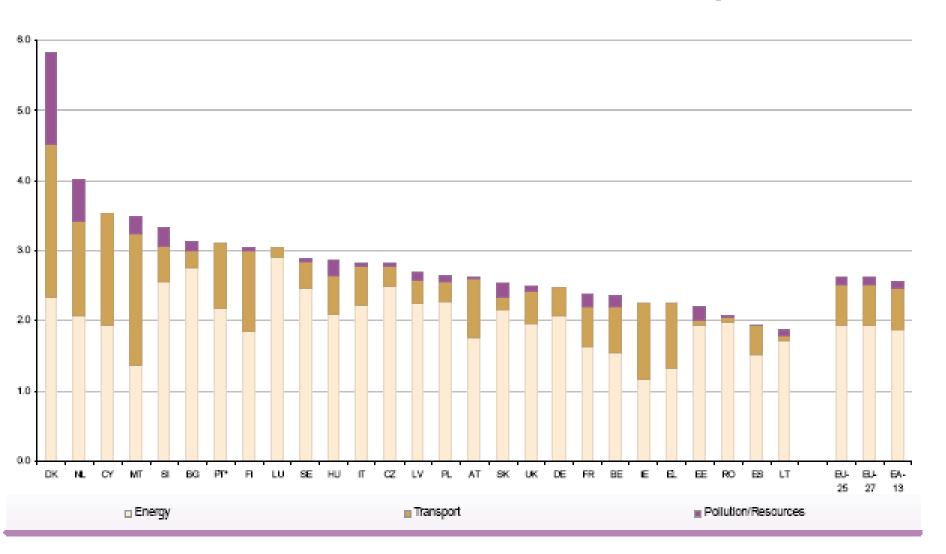
Resources

- Water abstraction
- Extraction of raw materials (except oil and gas)
- Other resources (e.g. forests)

Tax bases:

From the OECD/
Eurostat definition in 2001

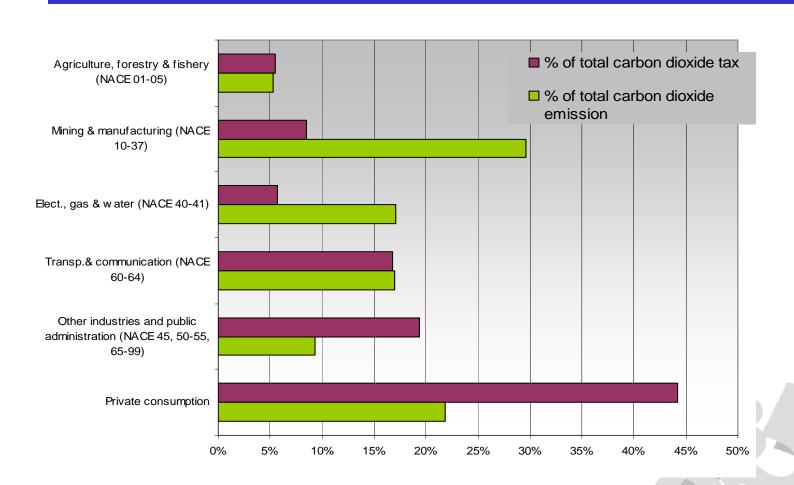
Environmental taxes, EU



Note: *PT: 2004. EU-25, EU-27, EA-13: weighted average.

Source: Commission Services

CO2 tax and CO2 emissions - by industry





Outcome paper on taxes

- Keep the Environmental tax definition
- VAT can be included when related to physical use

To do for Nov 2009 meeting:

- Taxes vs fees to be clarified in accordance with SNA rev
- Add clarification on resource taxes



Environmental transfers Three areas

1 – SEEA transfers: SNA-defined subsidies, plus selected SNA transfers to households, municipalities, etc



2 – SEEA transfers – environmental policy related

3 – SEEA – potentially damaging to the environment







1 - What is a subsidy/transfer?

International definitions

- OECD: " 'any measure that keeps prices for consumers below market levels, or for producers above market levels, or that reduces costs for consumers and producers"
- WTO (in short): including for example direct transfers, loan guarantees, tax credits and more...

→ All good, but hard to base statistics on

Suggestion to define SEEA transfers: Start out from National Accounts definition of subsidy, add more information (capital and current transfers), transfers to households and municipalities

What industries are receiving transfers? Examples:









2 - Environmentally related transfers

Two different definitions

- Motive/purpose-based (environmental policy related)
- Effect-based (related to other policies)

Both definition approaches are used today in other contexts

- Purpose in the environmental protection costs
- Effect on price in the environmental taxes

Work in countries 2009

Eurostat financed and self-financed country work

- Austria grant for harmful subsidies
- Germany testing a methods for environmental subsidies
- Sweden & Netherlands, distribute subsidies on industries
- Sweden, Norway, Denmark Nordic report
- UK grant for environmental subsidies



Eurostat TASK FORCE?

YES! If approved by DIMESA



- Need to discuss transfers in detail
- Based on growing knowledge in countries
- → gather & compare data
- Outcome to be: tested methodology



Thanks to reflection group....

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Outcome paper SEEA transfers

The on-budget SEEA transfers are formed by adding the SNA-subsidies, the current transfers not included in the SNA-subsidy (for example to municipalities and to households), and to also include the capital transfers.





Outcome paper SEEA transfers continued

- Environmentally related transfers are suggested to be divided into two groups
- Selection criteria for environmental policy SEEA-transfer is suggested to be the primary motive/purpose, as a first step
- Further selection criteria to be tested in Task Force and in the 2009 country projects. New outcome paper to be written on the results.

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