FFWT MENDELU, Department of Forest and Wood Products Economics and Policy (SS 2013)

Economics of Sustainable Management

5. Environmental policy and instruments









INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

Environmental politics



- Environmental politics is an academic field of study focused on three core components:
 - the study of political theories and ideas relating to the environment
 - the examination of political parties and environmental movements
 - the analysis of public policy-making and implementation affecting the environment at international, national and local levels

Environmental policy – definition

Environmental policy (EP)

is any action deliberately taken to manage
human activities with a view to prevent, reduce,
or mitigate harmful effects on nature and
natural resources, and ensuring that man-made
changes to the environment do not have harmful
effects on humans



Environmental policy – definition

Environmental policy

- the principal purpose of environmental policy is to provide a framework and guidelines for decision-making and activities at the international, national, regional and local level aimed at further improvements in the environmental quality as a whole and in the quality of environmental components
- focuses on enforcement of sustainable development principles, continuing integration of the environmental perspective into sectoral policies, and increasing the economic efficiency and social acceptability of environmental protection programmes, projects and activities

The origin of environmental policy

- outcome knowledge adverse impacts of human activities on the environment
- different spatial dimensions (London smog of 1952 – 4 000 victims)
- perceived as a new type of social problems
- monitoring and analysis in the 1960s
- origin of environmental policies beginning 1970s

Environmental policy

- Environmental policy at macroeconomics level
- Environmental policy at microeconomics level

Principles of Environmental Policy

- the prevention principle
 - it is better to solve environmental problems before they occur – can be more economically effective
- the precautionary principle
 - it is important to reduce the uncertainty
- the polluter-pays principle
 - polluter who causes the negative impact on the environment has to pay all costs (including externalities)
- the principle of priority for economically effective or cost-effective solution

Principles of Environmental Policy

the subsidiary principle

 environmental problems should be solved at society's most effective organisational level

the collaboration principle

 collaboration on the horizontal level of governance can increase the effectiveness of solutions to environmental problems

the sustainability principle

integration of environmental, economic and social dimensions

the principle of complexity and integration

it is important to introduce a system approach

Principles of Environmental Policy

- the principle of equitable distribution of costs and benefits
 - to avoid the situation where the costs of the environmental policy affect only some groups of population
- the public information principle
 - is becoming more and more important, especially when promoting private solution to environmental problems and public participation in solving the public environmental problems

Environmental policy

- The design of environmental policy requires answers to two central questions:
 - what is the desired level of environmental protection?
 - what policy instruments should be used to achieve this level of protection?

Environmental policy objectives

Objectives in factual terms:

- by components of the environment (water, soil, air...)
- by sector (energy, transport, agriculture...)
- by contamination (radioactive radiation, noise, vibration, waste...)

Objectives in terms of time:

- short, medium, long-terms objectives
- possibly with a specific deadline for solving

Environmental policy in EU



- EP is a relatively recent EU policy area
- 1958 Treaty of Rome was not mentioned environmental protection
- 1972 was launched first European Environmental Action Plans (EAP)
- 1986 The Single European Act marked the beginning of a more prominent role for environmental protection
- EU environmental policy was substantially expanded by the Treaties of **Maastricht** (1992) and **Amsterdam** (1997)
- 2007 Lisbon Treaty reiterated the objective of sustainable development
- 2010 Europe 2020 Strategy a strategy for smart, sustainable and inclusive growth
- 2010 EU renewed a number of environmental Directives to ensure the comply with the Lisbon Treaty
- now is prepared 7th Environmental Action Programme

National environmental policy

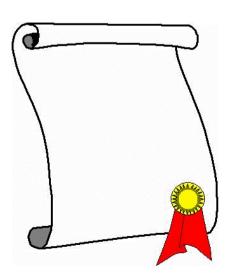


- environmental policy presents activities (mostly state), which set targets for the protection of the environment, defining the measures and the instruments to achieve them, and then apply these tools in practice
- EP is processed according to the specific conditions of individual countries, but there are common characteristic – notably with the formulation of objectives, respectively priorities and the means to achieve them

State environmental policy of the Czech Republic



- strategic document for the period 2012 -2020
- defines a plan for implementation of effective environmental protection in the CR
- main objectives are:
 - to ensure a healthy and quality environment
 - contribute to efficient use of resources
 - minimize the negative impacts of human activities on the environment



State environmental policy of the Czech Republic



- focuses of the following thematic areas:
 - conservation and sustainable use of resources
 - protect and improve air quality
 - nature and landscape protection
 - safe environment preventing the consequences of natural hazards (floods...)



Environmental policy instruments

- instruments for environmental policy are structured activities aimed at changing other activities in society towards environmental goals
- instruments of state to promote the objectives of the environment protection
- using tools of environmental policy in the individual countries is quite varied

Instrument mixes for environmental policy



 selected combination of tools applied in a particular economy or to solve a particular problem



Environmental policy instruments

- In the basic classification can be divided into:
 - direct instruments quantitative regulation (standards, limits, quotas, prohibitions)
 - instruments of indirect regulation especially environmental fees, taxes and many other marked-based instruments

Classification of instruments

- Categorization OECD:
 - normative (administrative and legal) instruments
 - economic and market instruments
 - informative instruments
 - monitoring and preparing evaluations reports
 - voluntary instruments
 - strategic planning instruments
 - institutional instrument
 - research and development
 - environmental education, training and awareness



Classification of instruments

- in terms of the moment of action: preventive and corrective tools
- in terms of method of stimulation: instruments of negative and positive stimulation
- in terms of rate action:
 - I. Instruments of direct regulation
 - legal (normative) tools
 - II. Instruments of indirect regulation
 - economic instruments
 - III. Other instruments
 - informative tools, environmental education, training and awareness
 - voluntary instruments
 - institutional instruments, spatial planning
 - science and research
 - participation of the polulation, Agenda 21 etc.

Normative (administrative and legal) instruments

- are particularly imposing obligations in the form of various prohibitions, commands, and limitations, of which the recipients are obliged to abstain from something, something to tolerate or do something to protect the environment
- these obligations are set either by law, or may be imposed by law and within the normative or individual act of the competent authority for environmental protection

Classification of normative (administrative and legal) instruments

In terms of legal forms:

- legislation
- general measures
- administrative acts
- actual instruction
- enforcement measures
- other acts

In terms of the effect:

- positive (authorization, permission)
- negative (obligations, prohibitions)

In terms of content:

- imposing obligations (prohibitions, commands, restrictions)
- administrative acts (permits, approvals, opinions, statements)
- quality standards (limits)
- categorization of protection objects
- control, supervision
- legal responsibility (liability, punitive tools)
- enforcement etc.



Normative (administrative and legal) instruments

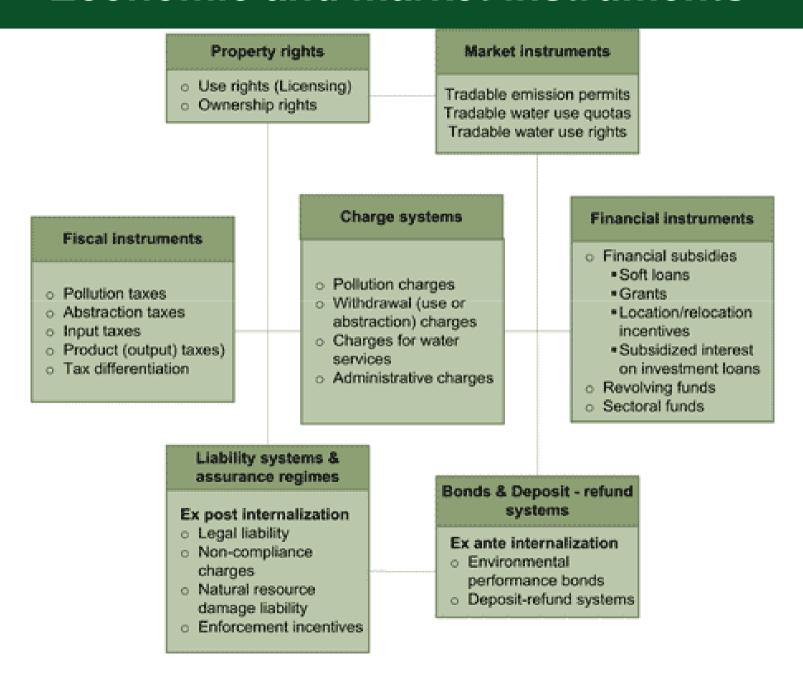
- the main problem the authority which uses the tools mostly has only poor information about the amount of control costs of individual polluters
- the positive side the administrative instruments can "act" quite fast and avoid the costs that would occur if undertaking other, more time-consuming solutions
- some of the instruments represent the first step toward improving property rights in the event that pollution limits are distributed to individual polluters

- The set of economic instruments available for implementing an economic incentives approach to natural resource management and environmental protection spans a wide range of options and possibilities, and the potential permutations and combinations are virtually limitless.
- Any instrument that aims to induce a change in behavior of economic agents by internalizing environmental or depletion cost through a change in the incentive structure that these agents face (rather than mandating a standard or a technology) qualifies as an economic instrument.
- Different instruments have advantages over other instruments in different applications and circumstances, and severe limitations in others.

- tools of negative incentives fees, penalties, respectively taxes
- instruments of positive stimulation, ie various forms of support
- market-based instruments should not be construed as narrowly defined tools in specific areas, but they need to be looked at from a broader perspective links the three pillars of sustainable development – economic, environmental and social spheres
- in this context, it is necessary to take into account in particular the issue of reform of harmful subsidies

- Economic instruments may be classified into seven broad categories:
 - a) property rights
 - b) market creation
 - c) fiscal instruments
 - d) charge systems
 - e) financial instruments
 - f) liability instruments
 - g) performance bonds and deposit refund systems





Green Tax Reform

- GTR is a special mix of environmental instruments
- on the one hand GTR reduces taxes on labor, on the other hand, it increases taxes on nature goods
- the result in public budgets should be zero
- many concrete models exist

Practical Examples of Economic Instrument

- Environmental Taxes and Charges in the Single Market. Communication from the Commission COM(97) 9 final
- OECD-EEA database of the environmental taxes and charges
- http://www2.oecd.org/ecoinst/queries/index.ht m
- (the Political Economy of Environmentally Related Taxes)

AUSTRALIA	Duty on nitrogen	Tax on groundwater extraction
New South Wales - Waste levy	Duty on pesticides	Tax on tap water
Oil recycling levy	Duty on waste	Waste tax
Aircraft noise levy	Duty on sealed NiCd-batteries	Tax on the pollution of surface waters
Ozone protection and synthetic greenhouse gas levy	Duty on carrier bags made of paper, plastics, etc.	
	Duty on tyres	NORWAY
AUSTRIA	Duty on polyvinyl chloride and phthalates	Tax on final treatment of waste
Waste deposit levy	Duty on waste water	Product tax on beverage containers
	Excise duty on antibiotics and growth promoters	Basic tax on non-refillable beverage containers
BELGIUM	Tax on water quantity	Tax on lubricating oil
Environmental taxes		Tax on pesticides
Packaging charge	FINLAND	Tax on trichloroethane and tetrachloroethane
Flanders – Groundwater tax	Oil damage levy	
Flanders – Tax on waste dumping and burning	Oil waste levy	SPAIN
Flanders – Manure tax	Excise on disposable beverage containers	Andalusia – Tax on emissions to air
Flanders – Water pollution tax	Tax on waste	Andalusia – Tax on radioactive waste
Wallonia – Tax on waste collection	·	Andalusia – Tax on coastal wastewater discharge
Wallonia – Tax on water withdrawals	FRANCE	Galicia - Tax on emissions to air
	General tax on polluting activities	

British Columbia — Batteries tax British Columbia — Logging tax British Columbia — Mining tax British Columbia — Tax on lead acid batteries British Columbia — Tax on lead acid batteries Federal air conditioner tax Manitoba — Non-deposit containers tax Manitoba — Non-deposit containers tax Manitoba — Tyres tax Meringerants Manitoba — Tyres tax Mova Scotia — Tyres tax Neva Brunswick — Tyres tax Nova Scotia — Tyres tax Nova Scotia — Tyres tax Recycling charge CZECH REPUBLIC Air pollution fee Payments for production and import of ozone depleting chemicals ITALY DENMARK Duty on raw materials Duty on certain retail containers Duty on certain retail containers Duty on disposable tableware Duty on dispo	CANADA (Examples only)		SWEDEN
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	Duty on CFC, HFC, PFAC and SF ₆		
	Duty on disposable tableware	NETHERLANDS	New Jersey - Litter control tax
	Duty on electric bulbs and electric fuses	Levy on water pollution	Francisco - Description - Strategies (Section 2016) and Section (Section 2016)

Informative instruments

 to support public administration, effective monitoring, evaluation and publication of environmental information



Monitoring and preparing evaluation reports

 an essential part of the action in the EU and integration into international structures is also a collection of information, regular transmission of the required information and reports (ie reporting), and exchange and regular evaluation

Voluntary instruments

 activities of business and other entities that aim to reduce the negative impacts of their activities on the environment, and these entities are introduced and implemented on the basis of their free (voluntary) decision and go beyond the requirements of the applicable legal standards

Voluntary instruments

VAA are such activities which

- go beyond the current environmental law or substitute for them
- should lead to effective or cost-effective solutions to the given environmental problems
- belong predominantly to a combination of environmental policy instrument (instrument mix)
- can be used to alleviate the economic impact of new environmental laws on heavily affected sectors
- are based on the increased activity of polluters
- can lead to environmental improvement as well as to economic and other positive benefits for the parties involved

Voluntary instruments

Voluntary regulatory tools:

- Implementation of environmental management systems
- Ecodesign
- Ecolageling ("Environmentally Friendly Product", "Environmentally Friendly Service")
- Monitoring and targeting leading to a reduction in energy consumption



- Life Cycle Assessment (LCA)
- Assessment of cleaner production
- Environmental management accounting
- Environmental benchmarking
- Environmental reporting
- Self-declared environmental claims
- Type III environmental declaration

Voluntary educational tools:

Training aimed at protecting the environment



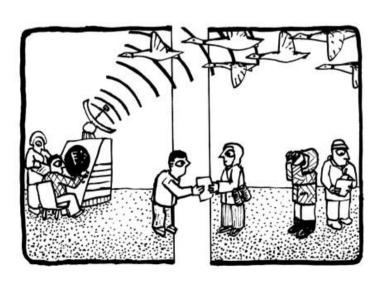






Strategic planning instruments

- include strategies, policies, concepts, programs and plans are a crucial part of the implementation of the National Environmental Policy
- a necessary condition for their effectiveness is the mutual coherence of the proposed objectives and is often an integral part of the Environmental impact assessment (EIA)



Institutional instuments

 governing the functioning of public administration institutions in the area of market surveillance, security, risk reduction, etc.

Research and development

- its outputs lead to a reduction in the negative impact of human activities on the environment, provide remediation and elimination of damage and monitor changes in environmental quality
- new technology is a significant potential for protecting and improving the environment and sustainable development

Environmental education, training and awareness

 is a long-term preventive tool in the environment, which is designed to reduce future damage to the environment caused by insufficient knowledge or ignorance, and the resulting incompetent decision-making, for example, at the level of companies, offices and other institutions



Environmental policy at microeconomic level

- environmental policy at the enterprise level
- how companies approach to environment
- how companies improve the environment
- which of the environmental policy instruments the companies use

- choose one firm
- describe environmental policy of this firm; how this firm protects the environment; which instruments are used
- your opinion what could be better
- max. 1 page A4

ENVIRONMENTAL POLICY

The McCorry Group is committed to reducing the environmental impacts caused by its operations as a supplier and a producer of predominantly timber-based products for various industries.

We recognize our responsibility to the staff, the local community and to the wider community including customers and suppliers, to operate in a socially, environmentally conscious and responsible manner by:

- Working with others to ensure the development and operation of a sustainable forest industry;
- Commitment to responsible purchasing of products in line with Global Forestry Trade Network/Global Forestry Services (GFTN/GFS) requirements;
- Meeting or exceeding regulatory requirements and government policy;
- Supporting the Forest Stewardship Council's (FSC) principles and criteria and the certification of its supply sources by FSC approved certifiers. The Group through its subsidiary, McCorry & Co. Ltd. is a FSC accredited supplier.
- Promoting research and development (R&D) to improve yields and produce higher quality products by applying new technology. R&D initiatives are focused on reducing stress on forests and the environment;
- Dealing with suppliers who are environmentally conscious and responsible;
- Actively supporting suppliers in setting reforestation policy and getting credible certification;
- Conducting regular performance audits to ensure that environmental commitments have been met or exceeded
- Avoiding the purchase of products which are derived from conservation forest areas that could contain high conservation value plants and wildlife.



Topics

- definition of environmental policy
- environmental policy objectives
- principles of environmental policy
- environmental policy in EU
- national environmental policy
- instruments of environmental policy
- environmental policy at microeconomic levels



Thank you for your attention...

...any questions?