

Environmental Economics and Environmental Policy No. 8

Part 3: Economic Evaluation on Environmental Policy and Project

In this part, we will discuss policy evaluation and economic evaluation of environmental policy, focusing on Cost of Illness (COI), Stated Preference (SP), and Revealed Preference (RP).

1. PDCA Cycle

PDCA Cycle: Plan \Rightarrow Do \Rightarrow Check \Rightarrow Action

Policy Cycle, Program Cycle, Project Cycle

Policy/ Program \Rightarrow SEA; Strategic Environmental Assessment

Project \Rightarrow EIA; Environmental Impact Analysis

2. Policy Evaluation

Evaluation Study

Policy Evaluation and Project Evaluation

Project Evaluation

Economics

Efficiency

Equity

DAC 5Criteria

Effectiveness

Efficiency

Impact

Sustainability

Relevance

Policy Evaluation Law (Japan), 2000

Necessity (Social Needs)

Efficiency

Effectiveness

Regulatory Impact Analysis (RIA) in USA

Benefit Cost Analysis

3. References

- Field, B. and M. K. Field (2009), *Environmental Economics: an Introduction*, 5th ed., McGraw-Hill
- Matsuoka, S. (2000), Implementation of environmental policy in the developing countries: Regulatory Instrument and their efficiency, *Journal of International Development Studies*, 9 (2), pp.11-36.
<http://www.f.waseda.jp/smatsu/>

4. Schedule of Course Work

1. Introduction: Theory and practice of Environmental Economics and Environmental Policy (9/28)

Part 1: Historical Development of Environmental Policies

We will review the history of pollution and combating against pollution in Japan.

2. Air Pollution and Policy (10/5), (10/12 will be closed)
3. Water Pollution and Policy (10/19)
4. * Students have to make a short report and presentation about the situation of major pollution issues (air and water) and ambient standards in your home country. (10/26)

Part 2: Theory of Environmental Policies

We will see three basic types of environmental policies, Command and Control (CAC), Market Based Instruments (MBIs), and Voluntary Approach (VA) and their efficiency.

5. CAC and MBIs and the comparison of their efficiency (1) 11/2
6. CAC and MBIs and the comparison of their efficiency (2) 11/9
7. Voluntary Approaches and theory of Policy Mix 11/16
8. Climate Change Policy 11/30
9. * Students have to a short report and presentation about the pollution control policy (air, water and climate) in your home country. 12/7

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In this part, we will discuss policy evaluation and economic evaluation of environmental policy, focusing on Cost of Illness (COI), Stated Preference (SP), and Revealed Preference (RP).

10. PDCA Cycle and Policy Evaluation 12/14
11. Cost Benefit analysis in Environmental Policy 12/21
12. Economic Valuation on Environmental Policy-COI, SP and RP 1/11
13. Contingent Valuation Method (CVM) and Travel Cost Method (TCM) 1/18
14. The Design of Environmental Policy 1/25
15. * Students have to a short report and presentation about Policy Evaluation of the pollution control policy (air, water or climate) in your home country. Concluding remarks 1/25