Training of Institutions in Modern Environmental Approaches and Technologies (TIMEA)

ES&T at the Vienna University of Technology

Paul H. Brunner

Institute for Water Quality, Resources and Waste Management
Vienna University of Technology
Austria

Mission statement TU Vienna:

„Technology for mankind – developing scientific excellence and conveying comprehensive competency“

Where to allocate environmental science and technology:

specialized curriculum
or
incorporated into „all“ curricula?
Teaching in environmental science and technology:

strategic versus process level

University of Technology versus Technical College

Activities at Vienna University of Technology

- Teaching („research based teaching“):
  - Civil Engineering Department:
    - MSc Infrastructure planning and management
  - many individual classes in ES&T
  - post graduate courses (MSc Environmental Technology & International Affairs)
  - international co-operation (e.g. PSIE, SOKRATES)

- Research:
  - level of institutes (e.g. Inst. For Waterquality, Resource and Waste Management, Inst. for Fueltechnology, Biomass Utilization and Environmental Technology etc.)
  - Centre for Sustainable Technology CST
  - international co-operation (EU FP5, FP6, FP7, PHARE etc.)
**TIMEA 2007** Resource strategies: example phosphorous

- Import = 230 t/a
- Stock 10,000 + 70 t/a
- Export = 170 t/a

**TIMEA 2007** Priority: methods and tools (here: MFA)

MFA as a decision support tool for waste and resources management

System "National food production and consumption" [kgP/(c.yr)]
MFA of Nonylphenol Polyethoxylate

NPnEO Input: 0.3 Mol/c.y

NPnEO Output: 0.12 Mol/c.y

Thank you!