



COURSE FOR SUSTAINABILITY

STRATEGIES, METHODOLOGIES, POLICIES AND ACTIONS FOR CENTRAL AND EASTERN EUROPE

Session 3

Energy

May 30 - June 12, 2004

Location: Venice International University, San Servolo Island, Italy

Course Agenda

Theme: The Global Energy and Climate Change

Lecture: The Global Energy Challenge (Diana Urge-Vorsatz, Central European University)

Lecture: Climate Change: Facts, Uncertainties, Predictions (Zsuzsa Ivanyi, Regional Environmental Center for Central and Eastern Europe)

Theme: Pollution and Energy Cogeneration

Lecture: Sustainable Energy for Central and Eastern Europe (Diana Urge-Vorsatz, CEU)

Lecture: Biomass: Problem or Opportunity? (Bruno Fierro, Bono Cannon)

Lecture: Biomass Cogeneration Case Histories: How we do it (Monica Grosso, Bono Cannon)

Discussion

Theme: Sustainable Energy Policy 1

Lecture: Ingredients of Sustainable Energy Policy 1: Instruments to Promote Energy Efficiency (Diana Urge-Vorsatz, Central European University)

Theme: Solar Energy and Sustainable Energy Policy 2

Lecture: Ingredients of Sustainable Energy Policy 2: Instruments to Promote Renewable Energy (Diana Urge-Vorsatz)

Lecture: Advanced Practical Application of Solar Energy (R. Barile, EniTecnologie)

Case Study on Solar Energy (R. Barile, EniTecnologie)

Themes: Wind Energy

Lecture: Wind Resources, Technology, Industry and Economics (Luciano Pirazzi, Italian National Agency for New Technologies, Energy and the Environment – ENEA)

Lecture: Wind Application, Deployment, Market Stimulation and Constraints (Luciano Pirazzi)

Lecture: Bioplastics (Catia Bastioli, Novamont)

Theme: The Economics of Energy – Assessment Methods

Lecture: Cost Evaluation of the Production of Energy from Renewable Sources (Giancarlo Pireddu, PricewaterhouseCoopers)

Lecture: Evaluation Methods for Energy and Pollution (Giancarlo Pireddu)

Lecture: Economic Instruments and Market-Based Incentives for Renewable Energy: How to Work out a Business Plan (Giancarlo Pireddu)

Theme: The Economics of Energy – Policies in Italy

Lecture: Policy Drivers and Administration of the Energy Sector in Italy: The Role of Regulator (Marcella Pavan, Italian Regulatory Authority for Electricity and Gas)

Lecture: Energy Regulation and Environmental Policy: Case Study on the Promotion of Renewables and Energy Savings (Marcella Pavan)

Lecture: Reliability Concerns in the Electricity Sector and Climate Change Policy (Marcella Pavan)

Theme: Thermal Power Station

Site Visit to the Enel Thermal Power Station in Porto Tolle

Theme: Refuse power generation

Lectures and Site Visit will Take Place in Treviso

Lecture: Production, Collection and Disposal of Municipal Solid Wastes in Italy with Particular Concern for the Organic Fraction, the Recoverable Energy from this Fraction, Treatments and Their Environmental Impact (Franco Cecchi, University of Verona)

Lecture: The Integrated Treatment Plant of Treviso Municipality (Franco Cecchi)

Site Visit to the Integrated Treatment Plant

Theme: Geothermal Power

Lecture: Geothermal Energy and its Industrial Applications, with Special Focus on Electricity Production (Ruggero Bertani, Enel Green Power)

Lecture: Case Study (Ruggero Bertani)

Group Work