

**Sustainable Development
and Environmental Management**

Advanced Training Program

Report 2005-2006

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Edited by T.E.N. Center – Thematic Environmental Networks
Venice International University
ten@univiu.org
www.univiu.org/research/ten/
www.etcprogram.org

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This 2006 edition of the Report documents the activities carried out between October 2005 and December 2006 of the Advanced Training Program on Sustainable Development and Environmental Management managed by the Thematic Environmental Networks Center of Venice International University within the Sino-Italian Cooperation Program for Environmental Protection of the Italian Ministry for the Environment, Land and Sea.

The Program started a few years ago, in 2003 and initially it involved few but relevant Chinese institutions such as the Chinese Academy of Social Sciences, the Ministry of Science and Technology, and the State Environmental Protection Administration of China. Over the years, the program achieved a considerable success as it proved to be useful in fulfilling its two most important goals: on the one hand, to provide the participants with relevant examples of the complexity of issues concerning sustainable development, which involves not only environmental aspects, but also economic, legal, social and institutional ones; on the other hand, to put the participants in contact with the way Italy and Europe are trying to respond to the challenge of sustainable development.

In the period of activity covered by this Report the Program improved and widened. Two new Chinese Institutions joined the program: the Beijing Environmental Protection Bureau and the Shanghai Environmental Protection Bureau. As far as numbers are concerned, 26 courses were organised in Italy, while the number of participants in these courses reached 1.000; new areas of study have been added such as Environmental Education and Ecosystems and Natural Resource Conservation. As ever, participants alternated classroom lectures held by academic experts in different fields related to sustainable development, with site visits where experiments of sound environmental management were presented.

In preparing the contents of the specific courses and in choosing the topics, we could take into account the increasing awareness that is rising in China as for the importance of making development sustainable. The promotion of a harmonious society has been a reference point when preparing the Training Program. We truly believe that this choice will also be a great opportunity for the whole human community, and we feel proud, as Venice International University, to have been able to give a contribution, although limited, to preparing the Chinese ruling class to successfully meet the challenges of sustainability.

In what follows, you will find a brief description of the training program's courses and the site visits' charts presenting the institutions that made these visits possible and that, once again, deserve our warm thanks for their availability and cooperation.

Ignazio Musu, President, TEN Center
Maria Lodovica Gullino, Director, Advanced Training Program

Training Contents

Environmental Management and Sustainable Development

Sustainable development is the new millennium challenge to guarantee an economical development for today and future generations in accordance with environmental needs.

Seven courses:

Delegation	Module	Period and Location
CASS	Eco-Management Strategies and Policies	Oct. 24-28 2005, Beijing
BMEPB	Environmental Management Mechanisms	Nov. 12-28 2005, Italy
MOST	Capacity Building on SD	Mar. 27-31 2006, Beijing
MOST	Capacity Building on SD	Apr. 1-15 2006, Italy
SEPA	Environmental Management and SD	Jun. 10-24 2006, Italy
SEPA	Environmental Management and SD	Sep. 2-16 2006, Italy
CASS	Eco-Management Strategies and Policies	Oct. 16-20 2006, Beijing

Main objectives

- _ To give an overview on SD management, adopted policies, legislation in force and experiences in specific fields.
- _ To explore economic issues related to SD.
- _ To focus on topics of special interest: Climate Change, Energy Efficiency, Water and Waste Management, Industrial Ecology, Land Reclamation, Sustainable Urban Development, Sustainable Agriculture.

Topics

Sustainable Development and Policies for Sustainability

- *Globalisation and Sustainable Development: Economic and Social Aspects*, I. Musu, University Ca' Foscari of Venice and VIU-TEN
- *Long-term Trends and Policies in Europe and China: a Comparison*, V. Valli, University of Turin
- *National and Local Policies for Sustainable Development*, I. Musu, University Ca' Foscari of Venice and VIU-TEN
- *China's Role in Sustainable Development: Signals from the Current Economic and Environmental Situation*, B. Buchner, FEEM
- *International Sustainable Development: Situation and Progress*, J. Huang, ACCA21
- *National Goals and Tasks for Ecological and Environmental Planning During the 11th Five-Year Plan Period*, Z. Sun, NDRC
- *Sustainable Development: Practice and Trends in China*, R. Guo, ACCA21

- *Sustainable Development in Italy and Europe*, P. Manzione, IMELS
- *Growth Policy, Economic Planning, Structural Policies*, V. Valli, University of Turin
- *Sustainable Development: Basics and Measuring Issues*, F. Bosello, FEEM
- *The FEEM Sustainability Index - A Way to Measure Sustainable Development in Reality*, A. Dobranskyte, FEEM and JRC
- *Italian Environmental Policy: the New State of the Environment Report*, C. Baffioni, IMELS
- *Environmental Policy at Local Level in Italy*, F. De Lucia, IMELS
- *Globalisation, Health and Sustainable Development*, A. Vercelli, University of Siena and S. Borghesi, University of Pescara
- *Inequality and Health*, A. Vercelli, University of Siena
- *Environment and Health: Air Issues*, F. Mitis, WHO
- *Italian Environmental Policy and Role of the Italian Ministry for the Environment, Land and Sea*, C. Baffioni, IMELS
- *Environmental Management and Sustainable Development*, C. Baffioni, IMELS
- *Integrated Environmental Policy in the European Union*, I. Musu, University Ca' Foscari of Venice and VIU-TEN
- *New Stage for China's Environmental Protection*, G. Xia, SEPA
- *Experiences with Sustainable Development in New European Union Countries*, M. Szigeti Bonifert, REC
- *International Cooperation and Research Projects Between Italy and China*, A. De Angelis, IMELS, SICP-PMO Beijing

Economic and Legal Aspects of Environmental Management

- *The Role of Legal Principles for Environmental Management*, M. Montini, University of Siena
- *Introduction to Environmental and Sustainable Development Law*, S. Stec, REC
- *Institutions and Actors of Environmental Law*, S. Stec, REC
- *The Latest Legal Progress in Sustainable Development*, J. Luo, National People's Congress
- *An Introduction to EU Environmental Policy and Law*, M. Montini, University of Siena
- *EU Environmental Legislation: Horizontal and Vertical Measures*, M. Montini, University of Siena
- *EU Environmental Law and National Experience*, G. Landi, DLA Piper
- *Case Studies on Local Implementation of Environmental Policies*, G. Landi, DLA Piper
- *Financing Environmental Infrastructure*, M. Volpe, University Ca' Foscari of Venice
- *Organization and Systems of Eco-management*, P. Manzione, IMELS
- *The Economic Approach to Environmental Policy*, P. Nunes, FEEM

- *Economic Aspects of Environmental Policy*, I. Musu, University Ca' Foscari of Venice and VIU-TEN
- *Analysis on China's Economic Growth and Environmental Status During the 11th Five-Year Plan*, J. Qi, CASS
- *On the Relation Between Economic Growth and Environment*, I. Musu, University Ca' Foscari of Venice and VIU-TEN

Climate Change, CDM and Energy Efficiency

- *Global Climate Change and International Environmental Agreements*, C. Carraro, University Ca' Foscari of Venice
- *Flexible Mechanisms in the Kyoto Protocol*, B. Buchner, FEEM
- *Assessing the Contribution of CDM Projects to Host Countries Sustainable Development*, J. Chiavari, FEEM
- *Programmatic CDM: a Direct Incentive for Developing Countries to Implement Climate Friendly Policies and Measures*, J. Chiavari, FEEM
- *Sustainable Development and Climate Change at Urban Level*, M. Grosso, Polytechnic of Turin
- *Energy Efficiency and Load Management: Some Basic Concepts and Role of Tariff Regulation*, M. Pavan, Italian Regulatory Authority for Electricity and Gas
- *CDM – A Policy to Foster Sustainable Development*, B. Buchner, FEEM

Water Management

- *Water Resource Scenarios at World Level*, G.M. Zuppi, University Ca' Foscari of Venice
- *Water Management*, P. Gardin, former VESTA S.p.A.
- *Groundwater as Archive for Climate Change*, G.M. Zuppi, University Ca' Foscari of Venice
- *Tactics for Taihu Lake Pollution Control*, H. Liu, Municipality of Wuxi
- *Wastewater Management in China*, H. Liu, SEPA
- *Wastewater and Organic Waste Management: Innovative Italian Experiences with Regard to the Increasing Environmental Concerns*, F. Cecchi, University of Verona

Sustainable Urban Development

- *Sustainable Development at Urban Level*, R. Pagani, Softech
- *Urban Sustainability*, A. Costa, IMELS, SICP-PMO Beijing and FEEM
- *Urban Planning for a Sustainable Development*, M. Savino, University of Messina
- *Town Planning and Strategic Environmental Assessment (SEA)*, G. Chiellino, "e-Ambiente", and University Ca' Foscari of Venice
- *Evaluation of Urban Improvements: a Spatially Distributed Hedonic-Hierarchic Approach*, M. Breil, FEEM
- *Urban Sustainable Policy in Italy*, F. De Lucia, IMELS
- *Sustainable Development in the Process of Urbanization in China*, M. Nie, Association of China Housing Industry

- *Energy Management Policies at Urban Level: Implementation and Funding Strategies*, L. Zingale, AGIRE Agency
- *Strategic Planning at Municipal Level: Air quality Management*, C. Tomaello, Municipality of Venice
- *The Concept of Corporate Social Responsibility*, I. Lenzi, FEEM
- *Trends on Residential Building, Enhancing Energy Efficiency, Water and Land Conservation, Materials Saving and Environmental Protection*, H. Qin, Policy Research Center of the Ministry of Construction
- *Ecological and Energy Efficient Building*, M. Cucinella, MCArchitects
- *Eco-building in China*, Y. Kai, Residential Environment Committee of China Real Estate and Residence Research Association and Chinese Institute of Architectural Design
- *Local Agenda 21 in Europe*, G. Gamba, Kyoto Club
- *PANDORA: E-governance and Local Self-Sustainability*, V. Cogan, FEEM
- *Participatory Approach and Stakeholder Engagement*, F. Viganò, FEEM
- *Participative Policy and Environmental Education at Urban Level*, C. Scarpa, Municipality of Venice

Solid Waste Management

- *Urban Waste Management in China*, S. Xu, SEPA
- *Recycling Economy in China*, J. Qi, CASS
- *Waste Management*, P. Gardin, former VESTA S.p.A.
- *Basic Theory of Disposal on Solid Waste*, G. Li, China Agricultural University
- *The Exploration and Thinking of Italy's Solid Waste Management*, G. Li, China Agricultural University

Sustainable Industrial Development and Industrial Ecology

- *The Development of Circular Economy in China*, Zhang Tianzhu, Tsinghua University
- *The Environmental Issue in Italy*, D. Miglioranzi, Unindustria
- *Industrial Ecology: Introduction and Applications*, I. Mannino, VIU-TEN
- *Environmental Auditing in Europe*, G. Chiellino, "e-Ambiente" and University Ca' Foscari of Venice
- *Economics and Land Reclamation: a Case for Brownfield Remediation and Reuse*, M. Turvani, University IUAV of Venice
- *Brownfield Remediation, Redevelopment, and Sustainability*, M. Turvani, University IUAV of Venice
- *Risk Assessment and Management for Contaminated Site Reclamation*, A. Marcomini, University Ca' Foscari of Venice
- *Environmental Risk Assessment (ERA): Theory and Application*, P. Agostini, University Ca' Foscari of Venice
- *A Case Study: VEGA the Venice Gateway for Science and Technology*, G. Mattiello, VEGA

Sustainable Agriculture

- *Sustainable Agriculture for Environmental Protection*, M.L. Gullino, Agroinnova-University of Turin and C. Clini, IMELS
- *The Role of Ecological Agriculture in the Sustainable Development Framework*, M.L. Gullino and D. Spadaro, Agroinnova-University of Turin
- *Biotechnologies in the Framework of Sustainable Agriculture*, M.L. Gullino and D. Spadaro, Agroinnova-University of Turin

Sustainable Development Issues in Venice

- *Introduction to the History of Venice*, L. Pes, University IUAV of Venice and VIU
- *The Evolution of the Environmental Problem in Venice: towards a Sustainable City*, P. Campostrini, CORILA
- *Will Venice Survive?*, A. Rinaldo, University of Padua
- *Managing Complex Environmental Systems: the Experience of the Venice Lagoon*, P. Campostrini, CORILA
- *Measuring the Economic Impacts of High Water on Venetian Economic Activities*, P. Nunes, FEEM
- *Assessing Environmental Damage of Alternative Fish Management Practices in the Venice Lagoon*, P. Nunes, FEEM
- *Approaches to Assess Management Practices in the Lagoon of Venice*, V. Zanatta, FEEM

Site Visits

- *Water Treatment for Drinkable Water*, Water treatment plant, SMAT S.p.A., Turin
- *Urban Waste Treatment*, Urban waste treatment facilities in Beijing
- *Electronic Waste Management*, AMIAT TBD s.r.l., Turin
- *Waste Water Treatment*, Waste water treatment facilities in Beijing
- *Land Reclamation*, Venice Gateway for Science and Technology, VEGA, Venice
- *Sustainable Agriculture*, Greenhouses and laboratories, Agroinnova-University of Turin
- *Sustainable Industry*, Paper mill plant, BURGO paper mill S.p.A., Cuneo
- *Sustainable Fuels*, FIAT Research Institute for the Development of Natural Gas Fuels, IVECO S.p.A., Turin

Sustainable Development Tools

Environmental management requires different tools, leading towards sustainability. Among these, legislation enforcement, environmental education and environmental impact assessment are particularly important.

Three courses:

Delegation	Module	Period and Location
BMEPB	Environmental Education	Jan. 7-21 2006, Italy
BMEPB	Environmental Impact Assessment	Oct. 29-Nov. 12 2006, Italy
SEPB	Environmental Policy: Economics, Legislation and Enforcement	Nov. 4-18 2006, Italy

Main objectives

- To give participants an overview of EU environmental policy and laws.
- To underline the importance of public environmental awareness, participation and education, through the presentation of specific initiatives.
- To explore environmental impact assessment and strategic environmental assessment, in terms of process, authorities involved and public participation.

Topics

European Environmental Policy and Laws

- *The European Union and Environmental Policy*, L. Kramer, former EU Commission
- *EC Environmental Policy and Laws*, L. Kramer, former EU Commission
- *Case Studies on Local Implementation of Environmental Policies*, G. Landi, DLA Piper
- *Environmental Policy in Italy*, C. Baffioni, IMELS
- *Environmental Policy in Italy: The Role of the Italian Ministry for the Environment, Land and Sea*, C. Baffioni, IMELS
- *Environmental Policy at Local Level in Italy*, C. Baffioni, IMELS
- *The Environmental Issue in Italy*, D. Miglioranzi, Unindustria Venezia
- *European Legislation and Enforcement in Agriculture*, A. Zaghi, Nomisma
- *Voluntary Agreements*, F. Viganò, FEEM

Environmental Education

- *Environmental Education and Social Aspects*, L. Pellizzoni, University of Trieste

- *Importance of Environmental Education*, E. Biginelli, Legambiente - Ecopolis
- *The United Nations Decade of Education for Sustainable Development (2005-2014) and the Role of UNESCO*, G. Andrian, UNESCO Roste
- *European Union and Environmental Education*, M. Camuffo, IDEAS University Ca' Foscari of Venice
- *Environmental Education at National Level*, M. Giansanti, IMELS
- *IMELS Initiatives for Environmental Education and Information*, A. Innamorati, IMELS
- *Environmental Education at School: How to Grow up Consciously*, S. Fant
- *Environmental Education in Practice: The Eupolis Experience*, L. Marigliano, Eupolis
- *Municipality of Venice Initiatives for the Promotion of Environmental Awareness*, C. Dezuanni and N. Brussa, Municipality of Venice

Environmental Awareness and Public Participation

- *Urban Sustainability and Governance Tools: towards Local Agenda 21 for Culture*, L. Fusco Girard, University of Naples Federico II
- *EU Policy for Public Participation*, G. Gamba, Kyoto Club
- *Local Agenda 21: Initiatives of Public Participation*, G. Gamba, Kyoto Club
- *Pandora: E-governance and Local Self-Sustainability*, V. Cogan, FEEM
- *Importance of Environmental Communication*, E. Biginelli, Legambiente - Ecopolis
- *Environmental Communication on TV*, I. Staglianò, «Ambiente Italia»
- *The Experience of Slow Food in Supporting and Promoting Traditional Food Products*, C. Scaffidi, Slow Food

Environmental Impact Assessment and Strategic Environmental Assessment

- *Environmental Assessment: The Origins and Key Principles of Impact Assessment*, L. Emmellin, Associate Swedish EIA Centre SLU
- *Environmental Assessment: EIA and SEA Systems, Processes and Approaches*, L. Emmellin, Associate Swedish EIA Centre SLU
- *Environmental Assessment: Strategic Environmental Assessment Case Studies*, L. Emmellin, Associate Swedish EIA Centre SLU
- *Environmental Impact Assessment: Process Limitation and Effects Verification*, G. Genon, Polytechnic of Turin
- *Participation in Environmental Impact Assessment*, A. Burzacchini, ICLEI
- *EIA and SEA Policy and Legislation in the EU and Italy*, G. Bilanzone, C.R.A.S. s.r.l.
- *Strategic Environmental Assessment and EMAS*, G. Chiellino, "e-Ambiente" and University Ca' Foscari of Venice

EIA and SEA Case Studies

- *Thetis Experiences in Environmental Impact Studies*, A. Regazzi, Thetis S.p.A.
- *Environmental Analysis of Chongming Development*, E. Ramieri, Thetis S.p.A.
- *The MOSE EIA Case Study*, F. De Pol, CVN and P. Rossetto, Thetis S.p.A.
- *Sustainability in the Frame of the Turin Olympic Village*, R. Pagani, Softech

Site visits

- *Sustainable Industry*, Kroll s.r.l., Venice
- *Ecomanagement*, EcoMondo Exhibition, Rimini Fiera S.p.A., Rimini
- *EIA Implementation*, Veneto Region EIA Offices, Veneto Region, Venice
- *EIA Implementation*, Venice Province EIA Offices, Province of Venice, Venice
- *Environmental Education Initiatives*, "Punto Laguna" Multimedia Information Center, CVN, Venice
- *EIA in Venice*, the MOSE work site, CVN, Venice
- *Environmental Education*, Museo "A" come Ambiente, Turin
- *EIA Experiences*, Thetis S.p.A., Venice

Ecosystem and Resource Conservation

Ecosystems and Natural Resources are the basis for human life, but today's development pattern is posing them under threat. Ecosystems and natural resources conservation are a fundamental step toward sustainable development.

Three courses:

Delegation	Module	Period and Location
CASS	Water Pollution	May 13-27 2006, Italy
MOST	Marine Protection	Jun. 24-Jul. 8 2006, Italy
BMEPB	Ecosystem Conservation	Jul. 8-22 2006, Italy

Main objectives

- _ To provide participants with an overview of the main issues related to Ecosystem conservation and policies adopted in the EU.
- _ To focus on water management and pollution control.
- _ To explore challenges and opportunities for marine ecosystem protection.
- _ To analyse specific case studies.

Topics

Ecosystem Conservation and Resource Management

- *Integration of Environmental and Sustainable Development Policies in Structural Funds: The Experience of the Italian Environmental Authorities Network*, G. Brunelli, IMELS
- *EU Policy for Ecosystem Conservation: Natura 2000 Network*, A. Finne, Metsahallitus - Finnish Forest and Park Service
- *The Main EU Tools for Nature Conservation: Birds and Habitat Directive*, A. Finne, Metsahallitus - Finnish Forest and Park Service
- *Wetlands as a Strategic Tool in the Context of Directive 2000/60/EC*, C. Piscitello, IMELS
- *Application of EU Policy for Ecosystem Conservation at Local Level*, G. Bellodi, Venice Water Authority
- *Economic Evaluation of Natural Resources*, D. Pettenella, University of Padua
- *Economic Evaluation of Natural Resources: Applications and Case Studies*, D. Pettenella, University of Padua
- *Assessing Environmental Damage of Alternative Fishery Management Practices in the Lagoon of Venice*, P. Nunes, FEEM
- *The Role of Ecological Agriculture in the Sustainable Development Framework*, D. Spadaro, Agroinnova-University of Turin
- *Biotechnological Applications for Sustainable Agriculture*, D. Spadaro, Agroinnova-University of Turin

Water Management and Conservation

- *Water Management at Global Level*, P. Minoia, IDEAS University Ca' Foscari of Venice
- *European Tools for Sustainable Management of Water Basins: Water Framework Directive (2000)*, P. Minoia, IDEAS University Ca' Foscari of Venice
- *Water Conservation*, S. Ferraris, University of Turin
- *Project Background towards an Integrated Management with Groundwater Resources for a Sustainable Development*, U. Puppini, ESI Italia s.r.l.
- *Water Scarcity Drafting Group: Italian Examples*, M. Barile, IMELS
- *Case study: The Integrated Treatment Plant of Treviso Municipality*, D. Bolzonella, University of Verona

Water Pollution Control

- *The Biological Approach in the Environmental Monitoring*, V. Meineri, EcoBioqual s.r.l.
- *Water Pollution Control Policy in Italy*, G. Caponi, IMELS
- *Economics of Water Pollution Control*, A. Massarutto, University of Udine
- *Local Issues in Water Pollution*, A. Ferronato, ARPAV
- *Water Quality Management*, L. Ridolfi, Polytechnic of Turin

Integrated Coastal Zone Management

- *Integrated Coastal Zone Management: General Aspects*, C. Giupponi, University of Milan
- *Integrated Coastal Zone Management: Case Studies*, C. Giupponi, University of Milan
- *Ecological Aspects of Fisheries*, P. Torricelli, University Ca' Foscari of Venice
- *Port Activity in the Mediterranean Sea*, S. Soriani, University Ca' Foscari of Venice

Marine Protection and Pollution Control

- *Marine Protected Areas: Theory and Practice*, F. Boero, University of Lecce
- *Marine Protected Areas in Italy*, R. Cattaneo Vietti, University of Genova
- *Pollution Monitoring*, M. Bocci, Thetis S.p.A.
- *Contaminated Sediment Management*, A. Barbanti, Thetis S.p.A.
- *Thermodynamic Approach to the Sustainability Assessment*, M. Fabiano, University of Genova

Venice Case Study

- *Introduction to the History of Venice*, L. Pes, University IUAV of Venice and VIU
- *Urban Sustainability in Venice*, S. Dalla Riva, CORILA
- *Restoring Environmental Equilibrium in the Venice Lagoon: Re-qualification and Protection. Measures to Restore the Drainage Basin*, F. Strazzabosco, Veneto Regional Government

- *The Evolution of the Environmental Problem in Venice: towards a Sustainable City*, P. Campostrini, CORILA
- *Safeguard of Venice*, G. Cecconi, CVN
- *Habitat and Species Protection in the Venice Lagoon*, G. De Filippo, Osservatorio Naturalistico della Laguna
- *Protected Areas and the Project for the Constitution of a Park in the Northern Lagoon*, M. Favaro, Osservatorio Naturalistico della Laguna

Site Visits

- _ *Water Treatment for Drinkable Water*, Water treatment plant, SMAT S.p.A., Turin
- _ *Research Applied to the Sea*, ICRAM, Rome
- _ *National Park*, Gran Paradiso National Park, Turin
- _ *Protected Areas*, Oasi Valle Averte, WWF, Venice
- _ *Protected Areas*, Valle Figheri, Venice
- _ *Venetian History and its Environment*, Lazzaretto Nuovo, Arkeo Club, Venice
- _ *Marine Preservation Laboratory*, Genova Aquarium, Genoa
- _ *Water Management in Practice*, Thetis S.p.A., Venice
- _ *Integrated Waste Water Treatment*, Integrated water management plant, Treviso Municipality
- _ *Integrated Waste Water Treatment*, Integrated waste water treatment plant, VESTA S.p.A., Venice
- _ *Coastal Management*, Port of Venice, Venice Port Authority, Venice
- _ *Venice Protection*, House of the Lagoon (Casa della Laguna), Osservatorio Naturalistico della Laguna, Venice

Energy

The increase of the world's population and the fast industrialization of developing countries will inevitably mean an increase in energy demand. The promotion of an efficient use of energy and the use of alternative energy sources are necessary to ensure the demand's satisfaction, guaranteeing a sustainable development.

Five courses:

Delegation	Module	Period and Location
CASS	Energy Efficiency and Renewable Energy	Nov. 26- Dec. 10 2005, Italy
MOST	Energy Efficiency and Renewable Energy	Feb. 25- Mar. 11 2006, Italy
MOST	Capacity Building on Energy Conservation and Efficiency	Oct. 16- 20 2006 , Beijing
MOST	Capacity Building on Energy Conservation and Efficiency	Oct. 21- Nov. 4 2006, Italy
CASS	Energy Efficiency and Renewable Energy	Nov. 18- Dec. 2 2006, Italy

Main objectives

- _ To present the main issues linked to the increasing energy demand and the world's possible scenarios.
- _ To illustrate different ways to meet energy demand through energy efficiency and the use of renewable energy.
- _ To explore alternative energy sources in terms of effectiveness, costs and impacts.

Topics

Energy Economics and Policy

- *The Energy-Environment Challenge to Sustainable Development*, I. Musu, University Ca' Foscari of Venice and VIU-TEN
- *World Energy Scenarios: Main Issues and Policy Options*, A. Vercelli, University of Siena
- *Energy Conservation, Environment and Climate Change*, C. Cui, NDRC
- *CDM and Energy Efficiency Policies*, R. De Filippo, FEEM
- *Energy Efficiency Policies and Measures*, E. Lavagno, Polytechnic of Turin
- *Policies, Standards, Potentials and Practices for Building Energy Conservation in China*, B. Lin, Tsinghua University
- *Policies and Programmes on Energy Efficiency in Europe and OECD Countries*, G. Zollino, University of Padua and EU Parliament
- *Policy Arrangements and Actions for the Energy Efficiency Target During the 11th Five-Year Plan Period in China*, Y. Dai, NDRC

- *Energy Efficiency Technology and Policy in China*, Y. Wang, Tsinghua University
- *Development and Energy Conservation Potentials of China Iron and Steel Industry During the 11th Five-Year Plan Period*, S. Li, China Iron and Steel Association
- *Situation, Challenge and Strategy of China Energy Security*, Y. Fan, CAS
- *Long-term Future of Energy Demand and Supply: Case Studies in Europe and China*, U. Farinelli, Italian Association of Energy Economics
- *Sustainable Energy Systems: Promoting Renewable Energy and Energy Efficiency in Liberalised Market*, A. Lorenzoni, University of Padua and Bocconi University, and L. Bano, University of Padua
- *The New Regulatory Approach*, G. Pireddu, University of Milano Bicocca
- *Energy Conservation and the Environment*, G. Pireddu, University of Milano Bicocca
- *Energy Efficiency and Load Management: Some Basic Concepts and the Role of Tariff Regulation*, M. Pavan, Regulatory Authority for Electricity and Gas
- *Tradable White Certificates for the Promotion of End-use Energy Efficiency*, M. Pavan, Regulatory Authority for Electricity and Gas
- *Energy Efficiency and Energy Market Transformation*, A. Iacomelli, ISES, International Solar Energy Society
- *Energy Efficiency: Technical and Economic Aspects*, G. Zollino, University of Padua and EU Parliament
- *Energy Efficiency and Renewable Energy Policies at Urban Scale: Work In Progress in Venice*, L. Zingale, AGIRE

Energy Efficiency

- *Energy Efficiency*, E. Lavagno, Polytechnic of Turin and M. Lionetti, IMELS
- *The Energy Modelling Approach*, E. Lavagno, Polytechnic of Turin
- *Energy Efficiency in the Final Use of Electrical Energy*, E. Bompard, Polytechnic of Turin
- *Energy Saving Techniques*, R. Borchiellini, Polytechnic of Turin
- *Energy Outlook in Industrial Sites*, D. Bosia, D'Appolonia S.p.A.
- *Energy Analysis in Industrial Sites*, M. Morando, D'Appolonia S.p.A.
- *Case Studies in Industrial Sites*, D. Bosia and M. Morando, D'Appolonia S.p.A.
- *Planning of Energy Saving and Energetic Efficiency Interventions for the City of Padua*, F. Bicciato, Municipality of Padua
- *Ecobuildings*, M. De Carli, University of Padua
- *Energy Optimization of Building-Plant System*, L. Schibuola, University IUAV of Venice

Renewable Energy

- *Geothermal Energy: from the Heart of the Earth. Geothermal Energy Discovery*, R. Bertani, ENEL Green Power and International Geothermal Association
- *Geothermal Energy in China*, R. Bertani, ENEL Green Power and International Geothermal Association
- *Wind Energy and the Energy Market*, C. D'Ayala Valva, IVPC
- *Wind Energy: the Italian and Chinese Experience*, C. D'Ayala Valva, IVPC
- *Renewable Energy*, G. Fracastoro, Polytechnic of Turin
- *Promotion of Renewable Energy*, M. Lionetti, IMELS
- *Wind Energy*, S.Togni, IVPC
- *Solar Energy*, A. Iacomelli, ISES

Site Visits

- *Solar Energy*, EniPower, Rome
- *Ecobuilding in Practice*, A case of eco-building in Padua, Tifs Ingegneria s.r.l., Padua
- *Energy from Waste*, Integrated waste treatment plant, VESTA S.p.A., Venice
- *Hydrogen Energy*, Venice Gateway for Science and Technology, VEGA, Venice
- *Photovoltaic Project*, Explora – The Children's Museum of Rome, ISES, Rome
- *Solar Village*, Alessandria Photovoltaic Village, Alessandria
- *Energy from Biomass*, Biomass plants, Cannon-Bono Energia, Milan
- *Energy from Waste*, Power plant "Andrea Palladio", ENEL S.p.A., Venice

Capacity Building on Clean Development Mechanism

Climate change is an issue of global concern. Within the Kyoto Protocol, Clean Development Mechanism is a flexible tool which involves developing countries in the attempt of reducing greenhouse gas emissions.

Three trainings:

Delegation	Module	Period and Location
MOST	Capacity Building on Clean Development Mechanism	Oct. 24-28 2005, Beijing
MOST	Capacity Building on Clean Development Mechanism	Oct. 29-Nov. 12 2005, Italy
SEPB	Capacity Building on Clean Development Mechanism	Mar. 23-25 2006, Shanghai

Main objectives

- _ To present the main problems linked to climate change, the sectors involved and the possible ways to face the issues raised.
- _ To provide an overview on Clean Development Mechanism, its origins and objectives, opportunities, barriers, costs and how to structure a CDM project.
- _ To analyse specific CDM projects and case studies.

Topics

Global Warming, Energy and Climate Policies

- *On the Relation between Economic Growth and the Environment*, I. Musu, University Ca' Foscari of Venice and VIU-TEN
- *Indicators for Energy and Sustainable Development*, A. Markandya, FEEM
- *Scientific Aspects of Climate Change and its Influence*, C. Wang, China Meteorological Administration
- *International Negotiation on Climate Change and its Future Trend*, W. Su, Ministry of Foreign Affairs of China
- *Climate Change and Global Warming*, A. Longhetto, University of Turin
- *The Present and Future of the Kyoto Protocol*, C. Carraro, University Ca' Foscari of Venice
- *Legal Aspects of the Kyoto Protocol on Climate Change*, M. Montini, University of Siena
- *Flexible Mechanisms in the Kyoto Protocol*, B. Buchner, FEEM
- *Effects of Climate Change on Plant Diseases*, M. L. Gullino and A. Rettori, Agroinnova-University of Turin
- *Kyoto Protocol, European Emission Trading Scheme (ETS), Italian National Allocation Plan (NAP) and Linking Directive*, E. Russo, ENEL S.p.A. and IMELS
- *Corporate Social Responsibility in the Context of Climate Policy*, F. Viganò, FEEM

- *Hydrogen and its Role in Sustainable Development*, M. Tavoni, FEEM
- *European Hydrogen and Fuel Cell Platform-HFP and Italian Hydrogen and Fuel Cell Platform-H2CC*, G. Rovera, Centro Ricerche FIAT

Clean Development Mechanism

- *An Introduction to the CDM: Scientific Background and Policy Framework Related to Climate Change*, B. Buchner, FEEM
 - *An Overview of the CDM: Key Issues and the Situation of CDM in the Real World*, B. Buchner, FEEM
 - *An Introduction to CDM: Key Issues and Developments*, B. Buchner, FEEM
 - *Subjects Involved in a CDM Project. Legal Steps in Developing a CDM Project*, D. Castiglione, FEEM
 - *Legal Steps and Key Issues in Developing a CDM Project*, J. Chiavari, FEEM
 - *CDM: The Point of View of International Investors*, E. Russo, ENEL S.p.A. and IMELS
 - *How to Structure a CDM Contract*, E. Russo, ENEL S.p.A. and IMELS
 - *CDM Legal Procedures in Place and Impacts on Petroleum-Sector Projects*, J. Chiavari, FEEM
 - *The Financial Aspect: Developments of the CDM Market*, B. Buchner, FEEM
 - *Baseline and Additionality. Two Open Issues in the CDM Approval Process*, E. Russo, ENEL S.p.A. and IMELS, and J. Chiavari, FEEM
 - *Basic Rules of CDM Projects of Carbon Sink*, Y. Li, Chinese Academy of Agricultural Sciences
 - *Assessment and Certification of Emission Reductions through CDM Projects*, R. De Filippo, FEEM
 - *Basic Rules and Requirements of CDM and its Prospect and Implementation in China*, X. Lv, MOST
 - *How to Obtain CDM Credits (CERs)? A Step-by-Step Approach through the Project Cycle*, J. Chiavari, FEEM
 - *Some Conclusions and Thoughts on Future Developments Related to CDM and China*, B. Buchner, FEEM
 - *Italian Policies for CDM, What Has Already Been Done and Which Will Be the Next Steps*, M. Morazzo, IMELS
 - *Carbon Finance and the Italian Carbon Fund*, C. Croce, IMELS
 - *China's Policies on Climate Change and Regulation on CDM Projects*, Gao Guangsheng, National Coordination Committee for Climate Change
- #### CDM Projects
- *Assessment and Certification of Emission Reductions Through CDM Projects: a Case Study*, J. Chiavari, FEEM
 - *CDM: the Italian Experience in China*, E. Russo, ENEL S.p.A. and IMELS

- *Sino-Italian Cooperation Projects on CDM*, A. De Angelis, IMELS, SICP– PMO Beijing
- *Development of a CDM Project in a Landfill*, L. Simonetti, D'Appolonia S.p.A.
- *Development of a CDM Project in a Manufacturing Industry*, L. Simonetti, D'Appolonia S.p.A.
- *CDM Project: Case Studies in China*, D. Liu, Tsinghua University
- *Importance and Prospects of CDM in Shanghai: Case Studies*, Qiu, SDRC
- *The Current Status and Progress of CDM Project Development and Implementation in China*, G. Lu, SEPA
- *Development of Landfill Gas CDM Projects in China: Potential, Procedure and Case Projects*, G. Lu, SEPA
- *CDM: The Italian Experience in China*, S. Leggio, IMELS

Site Visits

- *Hydrogen Energy*, Venice Gateway for Science and Technology, VEGA, Venice
- *Hydrogen Energy*, Power station, ENEL S.p.A., Venice

Sustainable Urban Development

Urban areas are key places for sustainable development. Waste Management, Vehicle Emission Control, Energy Saving and Eco-building are some of the main issues to deal with.

Five courses:

Delegation	Module	Period and Location
CASS	Sustainable Urban Development and Eco-building	Dec. 9-23 2005, Italy
CASS	Waste Management	Mar. 4-18 2006, Italy
SEPB	Sustainable Urban Development	May 27-Jun. 10 2006, Italy
CASS	Sustainable Urban Development and Eco-Building	Dec. 2-16 2006, Italy
BMEPB	Vehicle Emission Control	Dec. 9-22 2006, Italy

Main objectives

- To identify urban sustainability issues.
- To analyze urban sustainable policies.
- To explore new solutions in building technologies improving energy efficiency and saving, avoiding heat dispersion and offering at the same time better life conditions.
- To focus on topics of special interest: waste management, eco-building, energy efficiency, participatory approach, sustainable transportation and air pollution control.

Topics

Sustainable Urban Development Policies

- *Environmental Policy in Italy*, C. Clini, IMELS
- *Environmental Policy at Local Level in Italy*, C. Baffioni, IMELS
- *Recent Developments of EU Policy to Reduce Air Pollution from Vehicles. Directives and Regulations*, F. Romeo, IMELS
- *Sustainable Architecture. Policies, Trends and Initiatives of Eco-building in Italy*, S. Giulietti, IMELS

Urban Sustainable Planning

- *Urban Sustainability: Theoretical Elements, Practice and the Metabolic Approach*, A. Costa, IMELS
- *City Planning and Kyoto Protocol Respect*, F. Nussio, ATAC
- *Sustainable Urban Design: the Case Study of Huai Rou New Town*, F. Butera, Polytechnic of Milan
- *Sustainability and Urban Development: The Urban Plan of Messina*, G. Longhi, University IUAV of Venice
- *Eco-planning: the Case Study of Chongming Island*, E. Ramieri, Thetis S.p.A.

Local Environmental Strategy (Local Agenda 21)

- *Urban Sustainability and Local Agenda 21*, M. Ferrari, Municipality of Ferrara
- *Planning Tools for Sustainability*, G. Gamba, Kyoto Club
- *Local Agenda 21 in Europe*, G. Gamba, Kyoto Club

Waste Management

- *Economic Analysis of Waste Management Policies*, A. Massarutto, University of Udine
- *Waste Management*, P. Gardin, former VESTA S.p.A.
- *Waste Management*, L. Morselli, Rimini Campus Branch, University of Bologna
- *Presentation of the Landfill Site of Sogliano and of the Hazardous Waste Incineration Plant of Ravenna*, M. Carbone, Sogliano Ambiente S.p.A.
- *Hazardous Waste*, A. Marchini, VESTA S.p.A.
- *Hospital Waste*, I. Pavan, University of Turin
- *Manganese: Uses, Exposures, Risks and Prevention Strategies*, E. Hernandez, University of Turin

- *Waste Management in Firms*, A. Tencati, Bocconi University

Sustainable Architecture and Energy Efficient Building

- *Energy Efficiency and Renewable Energy Policies at Urban Scale: Work in Progress in Venice*, L. Zingale, AGIRE
- *Sustainable Architecture. Policies, Trends and Initiatives of Eco-building in Italy*, S. Giulietti, IMELS
- *Ecobuildings*, M. De Carli, University of Padua
- *Ecological and Energy Efficient Building*, G. Altieri, MCArchitects
- *New Energy Conservation Opportunities in Building*, M. De Carli, University of Padua
- *LTDS (Low Temperature Difference Systems) Developments and Case Histories*, M. De Carli, University of Padua

Sustainable Urban Transportation and Air Pollution Control

- *Urban Mobility Management*, L. Clonaci and L. Girardi, Maior s.r.l.
- *Transport Economy*, J. Massiani, University of Bergamo
- *Sustainable Transportation*, M. Bedogni, Mobility and Environment Agency of Milan
- *ITS and Traffic Management*, P. Campello, Thetis S.p.A.
- *Sustainable Transportation: the Case Study of Milan*, M. Bedogni, Mobility and Environment Agency of Milan
- *Planning of Local and Public Transportation and Big Events Management*, S. Bartolucci, ATAC
- *Case Study for Vehicle Emission Control*, G. Genon, Polytechnic of Turin
- *Urban Traffic Management: the Venice Province Case Study*, A. Leon, Province of Venice

Turin and the Olympics

- *Sustainability in the Frame of the Turin Olympic Village*, R. Pagani, Softech
- *Plan and Sustainability in the Frame of the Olympics*, P. Revellino, TOROC
- *The Evaluation of Eco-compatibility Projects Expected within the Strategic Environmental Assessment of the XX Olympic Winter Games Turin 2006*, R. Giordano, TOROC
- *Impact Assessment Evaluation in the Frame of the Olympic Winter Games of Turin 2006*, E. Biginelli, Legambiente - Ecopolis

Introduction to Venice and its Environment

- *Introduction to the History of Venice*, L. Pes, University IUAV of Venice and VIU
- *The Evolution of the Environmental Problem in Venice: towards a Sustainable City*, P. Campostrini, CORILA
- *The Venice Lagoon is a Sentinel of Global Changes*, P. Campostrini, CORILA

Site Visits

- *Ecobuilding in Practice*, A case of eco-building in Padua, Tifs Ingegneria s.r.l., Padua
- *ITS in Italy and China*, Thetis S.p.A., Venice
- *Waste Management Systems*, Consorzio Gaia S.p.A., Rome
- *Landfill Management*, Ginestreto Controlled Landfill, Sogliano Ambiente S.p.A., Forlì-Cesena
- *Hazardous Waste Management*, Hazardous waste incineration plant, Hera S.p.A., Ravenna
- *Integrated Waste Water Treatment*, Integrated water management plant, Treviso Municipality
- *Waste Recycling*, Recycling Centre Vedelago, Centro Riciclo Vedelago s.r.l., Treviso
- *Integrated Waste Treatment*, Integrated waste treatment plant, VESTA S.p.A., Venice
- *Energy from Waste*, ASM waste-to-energy plant, ASM Brescia S.p.A.
- *Electronic Waste Management*, AMIAT TBD s.r.l., Turin
- *Mobility Management*, ATAC, Rome
- *Mobility Station: Systems and Subsystems*, ATAC, Rome
- *Sustainable Urban Transport*, Bologna Public Transport Agency, ATC S.p.A., Bologna
- *Sustainable Urban Transport*, 5T control center, Telematic Technologies for Transport and Traffic in Turin - 5T s.r.l., Turin
- *Sustainable Fuels*, FIAT Research institute for the development of natural gas fuels, IVECO S.p.A., Turin
- *Sustainable Agriculture*, Greenhouses and laboratories, Agroinnova-University of Turin
- *Safeguard of Venice*, Venice Lagoon, CVN, Venice

Site Visits

The information reported in this section concerns companies and institutions that have been visited during the training sessions. They have authorized this publishing. They are listed in alphabetical order.

Sustainable Agriculture

Institution/Company

AGROINNOVA-University of Torino, Greenhouses and laboratories

Via Leonardo da Vinci 44, 10095 Grugliasco, Turin
www.agrinnova.org

Site Visit Objectives

To present Agroinnova's fields of interest in research and agro-environmental technology transfer and to illustrate some of Agroinnova's international co-operation programs and activities in China, as examples of sustainable agriculture.

Institution/Company Profile

AGROINNOVA is a Centre of Competence developed by plant pathologists at the University of Turin. It is located on the University Campus of Grugliasco (Turin). AGROINNOVA brings together the skills acquired so far by public and private, Italian and international researchers in the fields of agro-environment and agricultural and food industry. AGROINNOVA carries out research, knowledge and technology transfer, life-long learning and communication on up-to-date topics in the above stated sectors. Two academic professors, 50 PhD students, postdoc fellows, consultants and technicians, more than 30 ongoing research projects worldwide, 12 high level courses carried out during the period 2003-2005 are some of Agroinnova's specific features. Currently, most of its staff is based in Italy while the rest is abroad. In particular, AGROINNOVA operates in Grugliasco, at the Ministry for Environment and Territory in Rome and in Albenga at the Experimental Centre of the Chamber of Commerce of Savona.

Electronic Waste Management

Institution/Company

AMIAT TBD s.r.l.

Strada Brandizzo 150, 10088 Volpiano, Torino
www.tbdtorino.it/home.asp

Site Visit Objectives

To present an example of effective WEEE (waste of electric and electronic equipments) management and treatment, considering the high environmental impact that nowadays great quantities of this sort of equipments could cause if abandoned or not properly managed.

Institution/Company Profile

In 2000 Amiat S.p.A. (multiutility of the city of Turin), developed Amiat TBD s.r.l.

Amiat TBD collects WEEE, both from public and private companies. WEEE treatment process is subdivided into three production lines, one for the treatment of refrigerators and the other two for the treatment of dangerous and non dangerous electronic waste, respectively.

Treatment principles can be summarized on the basis of input characteristics:

_ Refrigerators, freezers, air conditioners, food and drink dispensers are first cleared from oil and CFC and then shredded in

controlled atmosphere, with a continuous treatment of processed air, by means of active carbons filtering and cryocondensation. In this way the recovery of all gases and environment damaging substances (Oils, CFC, HFC, HC) is guaranteed.

_ All other WEEE (Televisions, PCs, IT equipments, TLC equipments, printers, copiers, etc.) are first dismantled and cleared from dangerous component, such as Cathode Ray Tubes, PCB containing capacitors, batteries, cartridges etc., and then sent to selective shredding with non dangerous WEEE.

Thanks to advanced processes AMIAT TBD guarantees the optimal quality of second raw materials (iron, aluminium, copper, plastics, glass, and printed circuit boards) that can be sent back to the production system.

Final disposal of hazardous substances is entrusted exclusively to companies which have both the characteristics required by the law and the technology necessary to guarantee the proper final treatment.

Currently the percentage of material recovery exceeds the minimum requirements fixed by the Directive 2002/96/EC. Non dangerous and non recoverable waste is sent to landfill.

Lazzaretto Nuovo

Institution/Company

Arkeo Club

Lazzaretto Nuovo Island, 30141 Venice
www.ekos.provincia.venezia.it

Site Visit Objectives

To present an example of sustainable tourism and to visit an island that is part of the cultural heritage of Venice.

Institution/Company Profile

Situated near the coast of S. Erasmo Island, the Lazzaretto was built in the XVI century. Used by the army until the last century, especially during World War I, the island of Lazzaretto Nuovo was abandoned in 1975 and given as a concession to a voluntary association, the Arkeo Club, which insures custody and management of the island.

Nowadays it hosts an important archaeological site and it is used also for educational programs. The Lazzaretto is included in sustainable tourist routes and is also important for its flora and fauna.

Energy from Waste

Institution/Company

ASM Brescia, ASM waste-to-energy plant

Via Lamarmora 230, 25124 Brescia
www.asm.brescia.it

Site Visit Objectives

To present an example of urban waste management combined with energy production and environmental protection that puts into practice the most recent national and European guidelines for energy production.

Institution/Company Profile

ASM group is a public limited company. It operates in different business areas, i.e. production, transport, distribution and sale of electricity, street lighting, gas (transport, distribution and sale) and district heating/cooling; Integrated water services, including

water supply management, distribution, sewerage and water treatment; Environmental services, including waste collection, transport, treatment, recovery and disposal, and street cleaning services; Telecommunications and global services (integrated management of the design, implementation, operation and maintenance of heating, lighting, water and security equipment for buildings).

Mobility Management

Institution/Company

ATAC

Via Ostiense 131L, 00154 Rome
www.atac.roma.it

Site Visit Objectives

To understand the planning of Local and Public Transportation in the frame of the Kyoto Protocol with the presentation of Mobility Station controlling systems and subsystem traffic flows. To explain how to manage mobility during Great Events, both planned and unexpected.

Mobility Station: Systems and Subsystems

Site Visit Objectives

To present the activities carried out by the Mobility Agency of Rome within public and private urban transport. To give an overview on the measures adopted to reduce traffic and traffic originated pollution and on the results obtained.

Institution/Company Profile

ATAC, the Mobility Agency of the City of Rome was created in 2005 by a merger between ATAC S.p.A., the existing Local Public Transport company, and STA S.p.A. The company operates since 1996 to develop activities and services connected to private mobility.

The Agency is in charge of the control, monitoring and regulation of private mobility, parking design, planning and management, ticket management, authorisations and permits, communication, sustainable mobility policies and environment, design and planning of private and public networks.

Sustainable Urban Transport

Institution/Company

ATC S.p.A., Bologna Public Transport Agency

Via Saliceto 3, 40128 Bologna
www.atc.bo.it/english/index.asp

Site Visit Objectives

To present practical experiences of planning and fleet management systems applied to public transport.

Institution/Company Profile

ATC, a joint-stock company since December 2000, serves the residents of Bologna and its Province (921.000 inhabitants, 104.350.000 passengers per year).

With 173 lines, its network covers 3.837 km, of which 551 km are in the urban area and 3.286 km in non-urban areas. The fleet is made up of 976 vehicles, including 54 trolley buses and 11 electric vehicles.

ATC has developed and maintained ISO 9001 and ISO 14001 quality and environmental care systems, certified in 1998;

the company aims at a quality based policy and the system development has enabled a constant monitoring of the quality of ATC services in order to reach the company's targets.

Energy from Biomass

Institution/Company

Cannon Bono SISTEMI, Biomass plants

Via Resistenza 12, 20068 Peschiera Borromeo, Milan
www.bono.it

Site Visit Objectives

To present an example of biomass utilization for power generation. The use of biomasses allows saving fossil fuels, reducing CO2 emissions. Waste products from agricultural activities which usually have high disposal costs and can be polluting if improperly managed can also be used to produce energy.

Institution/Company Profile

BONO GROUP can boast 47 years of experience, gained in the design and production of biomass fired steam generators and thermal fluid heaters using a variety of waste fuels such as olive husks, rice husks and wood chips, with more than 42 installations. The application of Bono boiler technology and design capability has always been of great importance in developing environmentally sound solutions based on small biomass fuelled power plants ranging in size from 2 MW up to 10 MW.

Waste Management Systems

Institution/Company

Consorzio GAIA

Via Carpinetana sud 144, 00034 Colferro, Rome
www.consorzioaia.it

Site Visit Objectives

To present some experiences in waste management.

Institution/Company Profile

Consorzio GAIA S.p.A is a public share company operating an integrated waste management system in the environmental field. Consorzio GAIA S.p.A is located in the Lazio region (central Italy) within the Province of Rome and Frosinone.

Consorzio GAIA's activities are strongly committed to environmental practices including integrated waste system, environment management, training and environmental education. Waste collection takes place with innovative and technologically advanced equipment such as computerised loading motor vehicles, small compactors with electric traction and mechanical street sweepers.

Safeguard of Venice

Institution/Company

CVN, Consorzio Venezia Nuova

Campo Santo Stefano, San Marco 2803, 30124 Venice
www.salve.it

Site Visit Objectives

To present the activities for the safeguarding of Venice and its lagoon as a case study of ecological system management.

EIA in Venice

Site Visit Objectives

To present a practical example of EIA carried out at local level.

Institution/Company

CVN, Multimedia Information Center, Punto Laguna

Campo Santo Stefano 2949, 30124 Venice
www.salve.it/uk/puntoL/home.htm/

Environmental Education Initiatives

Site Visit Objectives

To present an example on how to address citizens' need for information and education about the problems of their city and its surrounding environment. Special attention is given to children in order to increase their environmental awareness.

Institution/Company Profile

Consorzio Venezia Nuova is the concessionary of the Ministry of Infrastructures and Transport – Venice Water Authority and is responsible for the measures concerning the safeguard of Venice and the lagoon for which the State is competent. The Consortium consists in a group of leading Italian and local construction companies. Defence from high waters and sea storms, recovery and protection of the lagoon ecosystem: these are the objectives of the vast program of safeguarding measures which has been carried out in the lagoon and inhabited lagoon areas for many years now. Punto Laguna is the multimedia information centre providing information on the activities for the safeguard of Venice and its lagoon delegated by the Italian State. Promoted by the Venice Water Authority and managed by Consorzio Venezia Nuova, it is meant for all those looking for information on the condition of the lagoon's ecosystem and on the activities for its safeguard.

The data and information that have been acquired over more than fifteen years of studies, experiments and projects have been gathered together and made available for consultation through a communication system enabling itineraries to be followed at various levels of detail.

Initiatives organized in Punto Laguna include also:

- _ training courses for practitioners from the public administration of the lagoon territory: the courses are a basic training on main software for data and documents management on the safeguard of the Venetian lagoon's ecosystem;
- _ presentation on safeguarding activities;
- _ technical seminars.

Integration of Traditional and Renewable Energy Sources

Institution/Company

ENEL S.p.A., Power plant "Andrea Palladio"

Via dei Cantieri 5, Malcontenta, Venice
www.enel.it

Site Visit Objectives

To discuss energy management in Italy and to present an example of waste utilisation for energy recovery. In fact, the Andrea Palladio coal-fired plant is one of the first structures in Italy to experiment the use of Refuse Derived Fuel (RDF) as fuel for electricity production.

Hydrogen Energy

Site Visit Objectives

To explore a real project for developing Hydrogen energy use.

Energy from Waste

Site Visit Objectives

To present an example of how it is possible to transform waste into energy and to introduce it in the net.

Institution/Company Profile

Created in 1962 as the Italian National Electricity Board, ENEL is today an industrial holding company; in the last decades, together with the traditional operations (production, transmission and distribution), steps have been taken to develop new business areas. ENEL operates with conventional energies like coal and oil and with renewable energies as well. Some branches of the company are in fact devoted to research and applications of new technologies like hydroelectric, wind, solar and geothermal energy.

Solar Energy

Institution/Company

EniPower

Via Augusto D'Andrea 6, 00048 Nettuno, Rome
www.enipower.eni.it/index.html

Site Visit Objectives

To present an advanced application of solar energy, in the field of hi-fi solar cells based on monocrystalline and multicrystalline materials and monocrystalline and multicrystalline PV modules.

Institution/Company Profile

Eni, Ente Nazionale Idrocarburi (National Hydrocarbon Company), was founded in 1953 by the Italian government to promote and develop a national energy strategy.

Eni was recently privatized and transformed into an oil and gas Italian multinational company, active in about 70 countries with more than 71.500 employees.

Established in 1999, EniPower is Eni's branch for electricity production. Since June 2006 EniPower has taken over the photovoltaic sector. The activities in this sector focus on feasibility studies, know-how transfer and international cooperation concerning PV systems (design, realisation and installation) and production of Eurosolare cells and modules.

Photovoltaic

Institution/Company

Explora – The Children's Museum of Rome, ISES

Museo dei Bambini di Roma
Via Flaminia 82, Rome
www.mnbr.it/index.asp

Site Visit Objectives

To show an application of PV-systems for the restructuring and maintenance of historic industrial buildings.

Institution/Company Profile

Explora - Museo dei Bambini di Roma, a no-profit organization, is the first children's museum in Italy, primarily designed for children, school and families.

Explora is a child-sized play town, where everything can be observed, touched and experimented. Visitors come into contact with facts, phenomena and everyday events: environment, communication, economy and new technologies.

The roof of the Children's Museum of Rome was restructured by applying PV-systems. This project aimed at improving the quality of natural lighting and at decreasing the heat load of the building through the integration of a specially designed PV system and the adoption of passive cooling devices. The overall approach to the project was based on the respect of environment and all the materials used for the construction are either recycled or recyclable and non-toxic.

National Park

Institution/Company

Gran Paradiso National Park

Via Della Rocca 47, 10123, Turin
www.parks.it/parco.nazionale.gran.paradiso/Eindex.html

Site Visit Objectives

To give participants an idea on how environment conservation can be achieved through knowledge, education and protection of territory.

Institution/Company Profile

Gran Paradiso National Park was the first national park established in Italy. It includes a large territory of high mountains, from the 800 meters of the bottom of the valleys to the 4.061 meters of the Gran Paradiso peak. Gran Paradiso National Park, with a surface area of 70.000 hectares, covers the Gran Paradiso range, an area characterized by every alpine environment, from rural landscapes of the valley floor to forests of conifers, from alpine pastures to high route environments.

Sustainable Urban Transport

Institution/Company

Gruppo Torinese Trasporti S.p.A. - 5T control center

Corso Turati 19/6, 10128 Turin
www.gtt.to.it - www.5t.torino.it/5t/en/home

Site Visit Objectives

To present one of the most active companies in national and European research initiatives in the sector of innovative telematics technologies.

Institution/Company Profile

GTT (the third group in public transport in Italy) is the main shareholder of 5T. GTT specialises in local transport and, more generally, mobility. The property of 5T's consortium includes private companies like Fiat Auto and Mizar Automation. 5T has the following strategic objectives: management and maintenance of the 5T system and development of other transport telematics applications in Turin, including 5T system extension to the greater metropolitan area; development and promotion of new transport-related services; development of telematics applications for managing traffic and transport in Italy and abroad.

Hazardous Waste Management

Institution/Company

HERA S.p.A., Hazardous waste incineration plant

Via Raibano 32, 47853 Coriano, Rimini
www.gruppohera.it

Site Visit Objectives

To provide an overview on the different aspects linked to hazardous waste management and treatment, through the presentation of HERA's experiences in this field.

Institution/Company Profile

HERA S.p.A. is a corporate organization that manages services related to the water cycle (potability, wastewater treatment, sewers), the use of energy resources (natural gas and energy distribution and sale, energy saving, district heating and innovative solutions), and environmental services management (waste collection and disposal, city cleaning, thermal waste treatment, composting). HERA was founded in 2002 combining twelve firms in the sector, each with a long tradition and firmly rooted in Emilia-Romagna, with the aim of improving the quality of services to citizens. The founding partners of Hera include 139 Municipalities in the provinces of Bologna, Ravenna, Rimini and Forlì-Cesena.

Research Applied to the Sea

Institution/Company

ICRAM

Via Casalotti 300, 00147 Rome
www.icram.org

Site Visit Objectives

To understand the contribution of Scientific and Technological Research applied to Marine Environment in the framework of sustainable management.

Institution/Company Profile

ICRAM is a public research institute under the authority of the Italian Ministry for the Environment Land and Sea. ICRAM'S mission is to support central institutions and local marine environment bodies to plan sustainable management, and to support biodiversity safeguard, fishing and coastal sustainable policies.

Sustainable Fuels

Institution/Company

IVECO S.p.A., FIAT Research Institute for the Development of Natural Gas Fuels

Via Puglia 35, 10156 Turin
www.iveco.com

Site Visit Objectives

To present some opportunities for environmental care and vehicle emission reduction, through the experience and products (light commercial vehicles, medium and heavy trucks, buses and coaches and special vehicles) of Iveco company.

Institution/Company Profile

Iveco, a global company created in 1975, is now one of the world's largest manufacturers of commercial vehicles and diesel engines. Iveco designs, manufactures and markets a complete range of

commercial vehicles (from 2,8 tonnes up to over 44 tonnes Gross Vehicles Weight), for road and off-road applications, collective passenger transport, fire-fighting and defence vehicles and diesel engines for a wide range of applications, from industrial to power generation, marine and rail.

Sustainable Industries

Institution/Company

Kroll s.r.l.

Via L. Mazzon 21, 30020 Quarto D'Altino, Venice
www.kroll-amkro.com

Site Visit Objectives

To learn from a company that succeeded in the sustainable management of its production and obtained the most important certifications proving its commitment to the environment protection.

Institution/Company Profile

Kroll s.r.l., founded in 1979, is a company that produces hand cleaning products. Since the beginning, Kroll's purpose has been the improvement of its own products, but also the pursuit of environmental protection. By adhering to the Kyoto Club (a non profit association of enterprises, authorities and firms which aim at reaching the objective established by the Kyoto Protocol, e.g. to reduce greenhouse gases emission into the atmosphere) the company has become much more involved in environmental protection; a "Policy for Quality & Environment" is the first step undertaken to obtain the quality certification UNI EN ISO 14001:96 in 2001 and the environmental certification UNI EN ISO 9001:00 in 2003, as well as the EMAS registration, which is at present the highest acknowledgement obtainable by European companies. An example of the company's commitment is the removal of a synthetic petrochemical solvent in all their products.

Environmental Education

Institution/Company

Museo "A" come Ambiente

Corso Umbria 90, 10144 Turin
www.museoambiente.org

Site Visit Objectives

To improve environmental education on sectors such as energy, transport, waste and water, using mainly a game approach.

Institution/Company Profile

The Museum "A" come Ambiente was created from two existing museums dedicated to environmental themes addressing children specifically: The first museum called "Museo R... come conoscere e giocare con i rifiuti" is about waste, while the "H2O... conoscere e giocare con l'acqua" museum, is specific on the use of water. The museum "A" come Ambiente, entirely devoted to environmental themes, represents a unique case in Europe. It is located within the Environment Park, (a Science and Technology Park on environmental themes). The museum covers an exhibition area of 1.400 km², distributed on three floors. Each floor is dedicated to one of the main themes of the museum: energy/transport, water and waste.

Protection of Venice

Institution/Company

Osservatorio Naturalistico della Laguna, House of the Lagoon (Casa della Laguna)

S. Croce 1704, 30135 Venice
www.ambiente.venezia.it/osservatorio.asp

Site Visit Objectives

To present an institution created in order to help citizens play an active role in the safeguard of the Lagoon, raising awareness on environmental issues through the collection and diffusion of environmental information.

Institution/Company Profile

The Osservatorio Naturalistico della Laguna was created by the Municipal Council of Venice in 2002. Five local government departments are involved in this project: the Environment Department (proponent), the Special Law Department, the Public Education Department, the Planning Department and the Culture Department (Natural History Civic Museum), together with the Municipality and the Province of Venice. The Osservatorio aims at realising several objectives: to design the Lagoon Environmental Atlas; to create a centre for the Environmental Incidence Evaluation in the lagoon; to develop guidelines for the management and monitoring of areas with naturalistic and environmental importance as planned by the urban plan and EU directives; to ensure access to environmental data and to spread knowledge through the Information Centre.

EIA Implementation

Institution/Company

Province of Venice, Venice provincial EIA Offices

Via Forte Marghera 191, 30174 Mestre, Venice

Site Visit Objectives

To present how EIA is put into practice at local level and which are the tasks of the Italian Provincial Governments and in particular of the Province of Venice.

Institution/Company Profile

The Province of Venice has a population of 832.326 inhabitants, distributed in 44 Municipalities, covering an area of 2.463 km². The Government of the Province of Venice is organised in several offices, among which, the office for Environmental Policies that includes the Environmental Impact Assessment Office. This Office is in charge of the environmental impact assessment of projects that are under the Provincial Government's competence, according to the legislation.

Ecomanagement

Institution/Company

RIMINI FIERA S.p.A., Ecomondo Exhibition

Via Emilia 155, 47900 Rimini
www.ecomondo.it, www.riminifiera.it

Site Visit Objectives

To meet and learn from leading companies involved in sustainable management of waste cycle, water and contaminated sites, air and soil quality, urban environment quality, risk and safety for the population.

Institution/Company Profile

RIMINI FIERA is an Italian leader in the organisation of trade fair events and service provider. Its activities are organised into 4 economic sectors: Hotel & Food Industry, Technology & Environment, Entertainment & Leisure, Travel & Tourism. Ecomondo represents an important event in the sectors of technology and environment. This exhibition covers numerous issues linked with the concept of environmental sustainability such as waste recovery cycle, sustainable energy, water recycling, reclamation, air quality and risks and safety, gathering the major sectors and companies involved in such activities, bringing together environment and market.

Water Treatment for Drinkable Water

Institution/Company

SMAT S.p.A., Water treatment plant

C.so XI febbraio 14, 10152 Turin
www.smatorino.it/default.htm

Site Visit Objectives

To illustrate the characteristics of the firm, the water networks management and the control processes of water public distribution.

Institution/Company Profile

SMAT, Società Metropolitana Acque Torino S.p.A., a publicly owned joint stock company, is one of Italy's leaders in the field of integrated water services, including mains supply, sewage and treatment. It boasts one of the world's most up-to-date and advanced production and management system. SMAT manages some of the largest and most advanced drinking water and wastewater treatment plants in Europe. It was the first utility company to use surface water for the production of drinking water in Italy. SMAT offers reliable turnkey engineering solutions and has extensive experience of planning and overseeing construction, quality control and final inspection of water plants and networks.

Landfill Management

Institution/Company

Sogliano Ambiente S.p.A., Ginestreto Controlled Landfill

Via Ginestreto - Morsano 14, 47030 Sogliano al Rubicone, Forlì-Cesena
www.soglianoambiente.it

Site Visit Objectives

To point out one of the most innovative aspects related to landfill activities. Particular attention is given to the strict environmental protection policy and to biogas extraction for electricity production.

Institution/Company Profile

Sogliano Ambiente S.p.A., a share company owned 70% by the Sogliano al Rubicone City Council, manages the Ginestreto landfill site. The landfill, settled in 1990, covers an area of 200.000 square metres and receives 185.000 tons per year of urban waste, serving an overall population of 200.000 inhabitants.

Water Management in Practice

Institution/Company

THETIS S.p.A.

Castello 2737/f, 30122 Venice
www.thetis.it/default.htm

Site Visit Objectives

To present practical experiences of system studies on the territory's sustainable development, remediation of polluted industrial areas, environmental monitoring systems and services linked to water management.

ITS in Italy and China

Site Visit Objectives

To present practical experiences of planning and fleet management systems for public transport, traffic and mobility management. Control systems are the main fields taken into consideration.

EIA Experiences

Site Visit Objectives

To present practical experiences of environmental impact assessment, carried out in Italy and China.

Institution/Company Profile

Thetis is an advanced engineering and system integrator joint-stock company, combining knowledge in environmental technologies and ICT (Information and Communication Technology) and providing innovative solutions in two business areas: Environmental and Civil engineering and Intelligent Transport Systems (ITS).

Eco-building in Practice

Institution/Company

Tifs Ingegneria s.r.l., a case study of eco-building in Padua

Padua
www.tifs.it

Site Visit Objectives

To present an example of eco-building, how it is built and its functioning in order to underline the importance and opportunities of energy efficiency in buildings.

Institution/Company Profile

TiFS is an engineering company set up in 2001 that operates in the plant engineering sector with a high level of specialization and specific expertise in HVAC, public health, fire protection, electricity, communication, safety, security, lighting systems, etc. The common aspect of TiFS' projects is the constant search for innovative solutions oriented to the respect of environment in a global economy and security.

Integrated Waste Water Treatment

Institution/Company

Treviso Municipality, Integrated water management plant

Via Cesare Pavese, S. Antonino, Treviso
mail.comune.treviso.it

Site Visit Objectives

To present an innovative treatment plant that integrates the water

cycle and the organic fraction of urban solid waste, combining high levels of depuration performance with energy recovery.

Institution/Company Profile

The Municipality of Treviso has a population of about 80.000 inhabitants. The waste water produced in its territory is treated in two plants. The main plant, with an overall capacity of 70.000 PE, receives both civil wastewater and organic waste coming from Treviso Municipality. In order to promote a continuous innovation in this field, the Municipality hosts in the treatment plant area, a research group from the Environmental Science Department of the University of Venice and from other linked universities.

Protected Areas

Institution/Company

Valle Figheri

Campagnalupia, Venice

Site Visit Objectives

To present an example of a private protected area and a sustainable system of fishery.

Institution/Company Profile

Valle Figheri is a fishery farm of 15 km², within the lagoon of Venice, where eels, basses, gilthead breams and grey mullets live. It is managed by a private owner according to a traditional system of fish farming.

The area is important also as a protected area: it hosts different flora and fauna species, some of them are endemic and typical of the lagoon environment.

Waste Recycling

Institution/Company

Centro Riciclo Vedelago s.r.l., Recycling Centre Vedelago

Via Molino 17, 31050 Vedelago, Treviso

Site Visit Objectives

To analyze the EU and Italian regulatory framework on separate waste collection and treatment.

To present a firm directly involved in recycling processes, in order to focus on problems and opportunities related to waste recycling.

Institution/Company Profile

Since 1999, the Centro Riciclo Vedelago s.r.l. has been managing a stocking plant, with a mechanical selection of waste for recycling materials.

The Centre receives material from municipalities, consortia and manufacturing companies which operate differentiated collection of waste. Inputs to the Centre are only authorised if there is the definite possibility of re-using certain materials (e.g. plastics, metal, glass, paper and wood).

The centre selects the materials according to their physical composition, reduces their volume and sends them to secondary plants or specialised companies which can use them in their productive cycles.

Land Reclamation

Institution/Company

VEGA, Venice Science and Technology Park

Via della Libertà 5/12, 30175 Marghera, Venice

www.vegapark.it

Site Visit Objectives

VEGA offers a good example of how a site reclamation could be an opportunity for the economical and environmental sustainable re-development of an industrial area.

Hydrogen Energy

Site Visit Objectives

To present the project of the Hydrogen park for Venice and other practical case studies.

Institution/Company Profile

VEGA, built over a former polluted industrial site after its remediation, is the City of Technology and Innovation for the Municipality of Venice, located in Marghera (the industrial area of Venice). VEGA is a limited company running as a consortium and a non-profit organisation. It was established in 1993 by 34 partner organisations, including the two universities of Venice, two banks and some important private companies. VEGA aims at improving the competitiveness of enterprises in the national and international market perspective, promoting and carrying out projects to improve the quality and range of products and their productive cycles.

EIA Implementation

Institution/Company

Veneto Region, Veneto Region EIA Offices

Palazzo Linetti, Calle Priuli, Cannaregio 99, Venice

www.regione.veneto.it

Site Visit Objectives

To present how EIA is put into practice at local level and which are the tasks of the Italian regional Governments and in particular of the Veneto Region.

Institution/Company Profile

The Veneto Region has a population of 4.738.313 inhabitants, distributed in 7 Provinces and 581 Municipalities, covering an area of 18.390 km².

The Veneto Region Government is organised in 13 regional offices, among which the infrastructures and Mobility office that includes the Unit on Environmental Impact Assessment. This Unit is in charge of the environmental impact assessment of projects that are under the Region's competence, according to the legislation.

Coastal Management

Institution/Company

Venice Port Authority, Port of Venice

Zattere 1401, 30123 Venice

www.port.venice.it

Site Visit Objectives

To present an example of a port's sustainable management in a fragile coastal area such as the lagoon ecosystem.

Institution/Company Profile

The Venice Port Authority (1995) is a public agency that promotes investments, innovation, employment and new services aiming at improving the quality and competitiveness of Venice Port by upgrading the maritime and land infrastructures for a better access, thus favouring the development of the harbour traffic and its relative activities.

Integrated Waste Treatment

Institution/Company

VESTA S.p.A., Integrated waste treatment plant

Fusina, Venice

Site Visit Objectives

To present an effective example of waste management that integrates different systems: a thermodestruction plant, a Refuse Derived Fuel (RDF) production plant, a composting facility for wet fraction from differentiated waste collection, sludge treatment and sewage depuration.

Energy from Waste

Site Visit Objectives

To present an example of how it is possible to transform waste in resources, by a plant transforming waste into energy.

Integrated Waste Water Treatment

Institution/Company

VESTA S.p.A., Waste water treatment plant

Fusina, Venice

Site Visit Objectives

To present an example of an effective urban and industrial waste water management through an integrated system.

Institution/Company Profile

VESTA is Venice Municipality's limited company that manages environmental services in town and in some other municipalities of the mainland serving 610.000 inhabitants.

VESTA's activities concern water supply and urban services such as drinkable water supply, urban and industrial wastewater treatment, waste collection and treatment, public and private cleaning, management of green areas and cemeteries and environmental reclamation work.

Protected Areas

Institution/Company

WWF, Oasi Valle Averte

Campagnalupia, Venice

www.wwf.it/oasi/schedeoasi.asp

Site Visit Objectives

To present an example of a private protected area (also natural reserve of the Italian Ministry for the Environment, Land and Sea) and to explain the possible management of an area where protection, tourism, education and rural production coexist.

Institution/Company Profile

WWF is a global organization that aims at halting the accelerating destruction of the natural world. In particular, its objectives

are to slow down climate change, to reduce toxic elements in the environment, to protect oceans and fresh waters, to stop deforestation, and to save species. WWF acts locally through a network of family offices, among which WWF Italy, funded entirely through donations, sponsoring and bequests.

According to an agreement with the Italian Government, WWF Italia is the owner of Valle Averte, a protected area of 4,2 km² of water and 0,13 km² of land, included in a larger protected area within the Ramsar Convention and the EU Directive 79/409/EEC and 92/43/EEC.

Valle Averte environment is rich of flora and fauna endemic species and has a big importance for rural fishery. This area was once a fishery farm and the environment was adapted to host a typical system for sustainable production. Nowadays it is an example of a natural area of the lagoon system and it is also a refuge for many protected and endemic species.

Training Profile Data

Training courses 2005-2006

Delegation	Course	General Schedule	Participants
CASS - Beijing	Eco-Management Strategies and Policies	Oct. 24-28 2005	160
MOST - Beijing	Capacity Building on Clean Development Mechanism	Oct. 24-28 2005	40
MOST	Capacity Building on Clean Development Mechanism	Oct. 29-Nov. 12 2005	27
BMEPB	Environmental Management Mechanisms	Nov. 12-26 2005	20
CASS	Energy Efficiency and Renewable Energy	Nov. 26-Dec. 10 2005	42
CASS	Sustainable Urban Development and Eco-Building	Dec. 9-23 2006	41
BMEPB	Environmental Education	Jan. 7-21 2006	21
MOST	Energy Efficiency and Renewable Energy	Feb. 25-Mar. 11 2006	29
CASS	Waste Management	Mar. 4-18 2006	42
MOST - Beijing	Capacity Building on SD	Mar. 27-31 2006	32
SEPB - Shanghai	Capacity Building on Clean Development Mechanism	Mar. 23-25 2006	27
MOST	Capacity Building on SD	Apr. 1-15 2006	28
CASS	Water Pollution	May 13-27 2006	38
SEPB	Sustainable Urban Development	May 27-Jun. 10 2006	19
SEPA	Environmental Management and SD	Jun. 10-24 2006	18
MOST	Marine Protection	Jun. 24-July 8 2006	29
BMEPB	Ecosystem Conservation	Jul. 8-22 2006	22
SEPA	Environmental Management and SD	Sep. 2-16 2006	14
CASS - Beijing	Eco-Management Strategies and Policies	Oct. 16-20 2006	160
MOST - Beijing	Capacity Building on Energy Conservation and Efficiency	Oct. 16-20 2006	30
MOST	Capacity Building on Energy Conservation and Efficiency	Oct. 21-Nov. 4 2006	28
BMEPB	Environmental Impact Assessment	Oct. 29-Nov. 12 2006	16
SEPB	Environmental Policy: Economics, Legislation and Enforcement	Nov. 4-18 2006	23
CASS	Energy Efficiency and Renewable Energy	Nov. 18-Dec. 2 2006	42
CASS	Sustainable Urban Development and Eco-building	Dec. 2-16 2006	39
BMEPB	Vehicle Emission Control	Dec. 9-22 2006	17

Total courses in Italy 2005-2006: 20

Total courses in China 2005-2006: 6

Total participants 2005-2006: 1004

Training courses 2007

Delegation	Course	General Schedule	Participants
BMEPB	Vehicle Emission Control	Jan. 13-27 2007	21
SEPA	Multilateral Environmental Agreements (MEAs)	Jan. 27-Feb. 10 2007	25
MOST	Energy Efficiency and Renewable Energy	Mar. 3-17 2007	31
CASS E-learning	Environmental Management	Mar. 5-9 2007	60
CASS	Waste Management	Mar. 10-24 2007	42
TSTC - Tianjin	Sustainable Urban Development in Coastal Areas	Mar. 12-16 2007	50
SEPB - Shanghai	Environmental-Friendly Cities	Mar. 15-17 2007	21
MOST - Beijing	Capacity Building on Clean Development Mechanism	Apr. 9-13 2007	31
SEPA	Water Pollution Prevention and Control	Mar. 17-31 2007	25
BMEPB	Energy Efficiency and Renewable Energy	Mar. 24-Apr. 7 2007	21
MOST	Capacity Building on Clean Development Mechanism	Apr. 14-28 2007	31
CASS	Water Pollution Prevention and Control	May 12-26 2007	42
CASS E-learning - Study Tour	Environmental Management	May 24-Jun. 2 2007	15
SEPB	Environmental Management	May 26-Jun. 9 2007	21
SEPA	Water Pollution Prevention and Control	Jun. 9-23 2007	25
TSTC	Sustainable Urban Development in Coastal Areas	Jun. 16-30 2007	25
MOST	Air Pollution Control	Jun. 23-July 7 2007	31
SEPA	Water Pollution Prevention and Control	Sep. 1-15 2007	25
BMEPB	Environmental Management and Sustainable Development	Sep. 15-29 2007	21
CASS - Beijing	Eco-Management Strategies and Policies	Oct. 15-19 2007	160
MOST - Beijing	Capacity Building on SD and Legal Aspects	Oct. 15-19 2007	31
MOST	Capacity Building on SD and Legal Aspects	Oct. 20-Nov. 3 2007	31
CASS	Energy Efficiency and Renewable Energy	Nov. 3-17 2007	42
BMEPB	Radiation and Electrical Pollution Control	Nov. 10-24 2007	21
CASS	Sustainable Urban Development and Eco-building	Nov. 17-Dec. 1 2007	42
SEPB	Environmental Management	Dec. 1-15 2007	21
TSTC	Sustainable Urban Development in Coastal Areas	Dec. 8-22 2007	25

Total courses in Italy 2007: 27

Total courses in China 2007: 5

Total participants 2007: 936

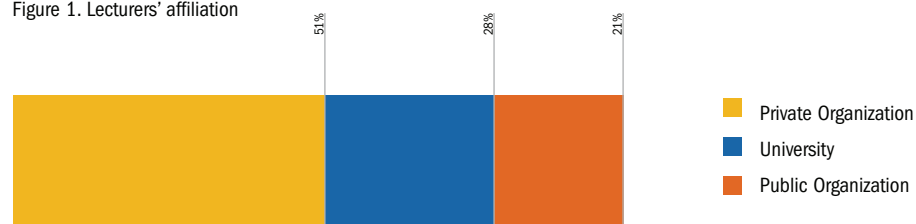
List of Acronyms

Training lecturers

More than 300 lecturers contributed to the Training Program from October 2005 to December 2006.

In order to cover a wide range of topics and to be able to discuss about practical aspects of environmental management, to present practical case studies and to set up an exchange of experiences with the participants, speakers from the academia, the public sector and private companies were invited.

Figure 1. Lecturers' affiliation

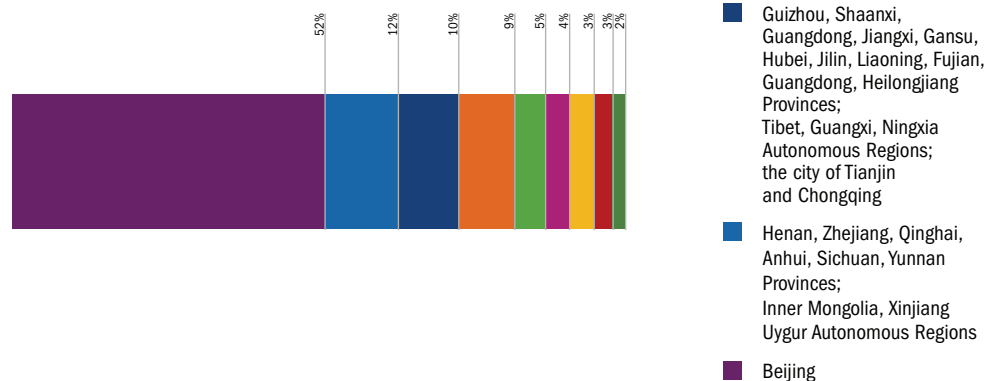


Training participants

More than 1.000 participants attended training from October 2005 to December 2006.

Although most of the trainees came from Beijing, most of the Chinese provinces were represented, with their needs, peculiarities and specific issues.

Figure 2. Trainees' provenience



Training addressed Chinese governmental officials, academics and representatives of the private sector involved in environmental management.

Figure 3. Trainees' affiliation



ACCA21	Administrative Centre for China's Agenda 21
AGIRE	Venice Energy Agency
ARPAV	Agenzia Regionale per la Prevenzione e Protezione Ambientale del Veneto – Veneto Regional Agency for Environmental Prevention and Protection
ASM	Azienda dei Servizi Municipalizzati di Brescia – Brescia Municipal Services Agency
ATAC	Mobility Agency, City of Rome
ATC	Public Transport Agency, City of Bologna
BMEPB	Beijing Municipal Environment Protection Bureau
CAS	Chinese Academy of Sciences
CASS	Chinese Academy of Social Sciences
CER	Certified Emission Reduction
CORILA	Consorzio per la Gestione del Centro di Coordinamento delle Attività di Ricerca inerenti il Sistema Lagunare di Venezia – Consortium for Coordination of Research Activities concerning the Venice Lagoon System
CVN	Consorzio Venezia Nuova – Venezia Nuova Consortium
EIA	Environmental Impact Assessment
EMAS	Eco-Management and Audit Scheme
ERA	Environmental Risk Assessment
ETS	Emission Trading Scheme
FEEM	Fondazione Eni Enrico Mattei – Eni Enrico Mattei Foundation
GTT	Public Transport Agency, city of Turin
ICLEI	Local Governments for Sustainability
ICRAM	Istituto Centrale per la Ricerca scientifica e tecnologica Applicata al Mare - Central Institute for the Scientific and Technological Research Applied to the Sea
IDEAS	Centro Interdipartimentale per l'Analisi delle Interazioni Dinamiche tra Economia, Ambiente e Società - Interdepartmental Center for Dynamic Interactions between Economy, Environment and Society
IMELS	Italian Ministry for the Environment, Land and Sea
ISES	International Solar Energy Society
ITS	Intelligent Transport System
IUAV	Istituto Universitario di Architettura Venezia – Venice University Institute of Architecture
IVPC	Italian Vento Power Corporation
JRC	EU Commission Joint Research Centre

LTDS	Low Temperature Difference Systems
MEA	Multilateral Environmental Agreement
MOST	Ministry of Science and Technology of China
NAP	National Allocation Plan
NDRC	China National Development & Reform Commission
RDF	Refuse Derived Fuel
REC	Regional Environmental Center for Central and Eastern Europe
SD	Sustainable Development
SDRC	Shanghai Development and Reform Commission
SEA	Strategic Environmental Assessment
SEPA	State Environmental Protection Administration of China
SEPB	Shanghai Municipal Environment Protection Bureau
SICP	Sino-Italian Cooperation Programme for Environmental Protection
SICP PMO	Sino-Italian Cooperation Programme Project Management Office
SMAT	Società Metropolitana Acque Torino – Municipal Water Company of Turin
TEN	Thematic Environmental Networks Center
TSTC	Tianjin Science and Technology Committee
TOROC	TORino Organising Committee, Authority for the Management of Turin Winter Olympics 2006
UNESCO Roste	United Nations Educational, Scientific and Cultural Organization Regional Office for Science and Technology for Europe
VEGA	VEnice GAteway for Science and Technology, Venice Science and Technology Park
VESTA	Venezia Servizi Territoriali Ambientali – Venice Environmental Territorial Services
VIU	Venice International University
WEEE	Waste of Electrical and Electronic Equipment
WHO	World Health Organisation
WWF	World Wide Fund for Nature

