Sino-Italian Cooperation Program for Environmental Protection Sustainable Development and Environmental Management Advanced Training Program

Report 03-05
Sustainable Development and Environmental Management
Advanced Training Program

Report 2003-2005
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In year 2000, the Italian Ministry for Environment and Territory (IMET) launched a cooperation program with the China State Environmental Protection Administration (SEPA), the Chinese Academy of Social Sciences (CASS), the Ministry of Science and Technology (MOST), Beijing and Shanghai Municipalities.

The program aims at the realization of pilot projects and feasibility studies for natural resources protection and conservation, energy efficiency, renewable sources promotion, low emission transportation systems and technologies, sustainable agriculture and environmental training courses.

The cooperation program was included among the “Partnership initiatives” for sustainable development by the United Nations. In September 2002, the Italian Prime Minister Silvio Berlusconi, together with the Chinese and Italian Ministers, Mr. Xie Zhenhua and Mr. Altero Matteoli presented it during the Johannesburg World Summit.

The program takes its place among the United Nations International Conventions and protocols on climate change, ozone layer protection, biodiversity protection, persistent organic chemicals elimination and the fight against desertification.

Starting from 2003, in the frame of the Sino-Italian Cooperation Program for Environmental Protection, the Italian Ministry for the Environment and Territory has launched an Advanced Training Program on Environmental Management and Sustainable Development addressed to Chinese senior governmental officials, professors, researchers, managers and engineers.

The Training Program is part of a long run perspective where the Chinese decision makers’ and experts’ role is strategic, since it has to become an active and responsible part of the environmental protection development at both national and global dimension. The core aim of the Training Program is to foster and further stimulate concrete actions on sustainable development in the People’s Republic of China.

Corrado Clini General Director,
Department for Environmental Research and Development,
Italian Ministry for the Environment and Territory
A new paradigm of eco-restructuring for sustainable development, involving shifts in technology, economic activities and lifestyles is particularly needed for large countries such as China, in order to be able to harmonize human activities with natural systems. With the largest population in the world, predicted to peak at 1.6 billion in 2040, the decisions made by China will have a major impact on the global marketplace and environment. China’s economic growth has already caused significant impacts on its own environment as well as on that of neighbouring countries.

China’s current high rate of economic and social transformation has resulted in extensive pollution and exhaustion of many resources, including water, forests, agriculture and minerals. The situation in many parts of China has reached a critical point. The state of the environment is still worsening and posing, in several areas, obstacles to economic growth. Water pollution has contaminated over half of monitored urban river sections; soil erosion, deforestation, damage to wetlands and grasslands have resulted in deterioration of China’s ecosystems and pose a threat to future agricultural sustainability; rapid urbanisation has led to additional pressures on water and land resources and the quality of urban air has been deteriorating rapidly. Without reforming economic and environmental policies, restructuring inefficient industries, conserving scarce natural resources and without investing in cleaner and resource efficient production, the situation is likely to worsen affecting potential for further economic growth.

Many of the environmental problems facing China can be addressed today through the transfer of knowledge and technology. Diffusion of up-to-date technical and scientific knowledges, training of Chinese ruling classes and professionals able to internalize the innovations and to drive the changes in a sustainable point of view, are one of the principal objectives of the Sino-Italian Cooperation Program. It is for this reason that the training courses organized within such Program are specially tailored according to the needs and requests of the Chinese counterpart and deal with the main Chinese environmental problems registered today: greenhouse gasses and carbon dioxide reduction, waste and water management, sustainable agriculture, renewable energies, industrial ecological development, intelligent transport system and eco-compatible urban planning.

The challenge is to create a broader framework for the sustainable development practices in China, involving the Italian expertise at all levels.

Maria Lodovica Gullino  Training Program Director, Agroinnova-University of Turin

Venice International University (VIU) considers Sustainable Development as one of the main fields of its programs both in advanced education and in research. We are convinced that today the challenge of sustainable development cannot be fruitfully addressed without taking a world-wide approach based upon co-operation between mature and developing countries. China is a big and fast developing country that took the issue of sustainable development very seriously. If China will be able to shape its economic growth model as a sustainable one, it will greatly contribute to the solution of global environmental problems and will ultimately benefit Europe as well. On the other hand, what has been and is being done in Europe might be of some help to China in order to better achieve a sustainable development path. This is the profound meaning of these training programs, and this is the reason why Venice International University enthusiastically accepted the proposal of the Italian Ministry of the Environment to organise the training programs presented in this report.

In preparing the training programs at VIU, we have tried to respond to the requirements of the institutions sending participants, but we also tried to keep the complexity of the issue of sustainable development, which involves not only technical aspects, but also economic, legal and institutional ones. Each training course not only consists of classes given by academic experts in different fields, but also of meetings with firms and civil servants concretely operating for sustainable development both in private and public sector; also participants alternate classroom lectures held on the island of San Servolo with site visits where experiments of sound environmental management are presented. The fact that an important part of the programs organised in Italy takes part in Venice has a particular meaning and relevance. Venice is a peculiar example of the complexity of the issue of sustainable development. At the beginning of their courses in Venice, we have taken care that participants were provided with a basic information about the historical ground of the complex environment of Venice and its lagoon; and when for Venice we speak of an historical background, we not only mean the evolution of historical events, but also the historical accumulation of one of the world’s most important and unique cultural and artistic heritage.

In what follows, the training program’s courses are briefly described according to their specific topic. Moreover, a list of lectures is provided as well as the site visits’ charts presenting the institutions that made these visits possible and that deserve our warm thanks for their availability and cooperation. Finally, some figures about lecturers and participants are also presented.

Ignazio Musu  Dean, Venice International University
Training Contents

Environmental Management and Sustainable Development

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

Twelve courses and a study tour:

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<th>Delegation</th>
<th>Module</th>
<th>Period and Location</th>
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<tbody>
<tr>
<td>CAS</td>
<td>Eco-Management Strategies and Policies: Overview on European and Chinese Programs</td>
<td>October 20th-24th 2003, Beijing</td>
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<tr>
<td>MOST</td>
<td>Global Environment and Strategies for Sustainable Development</td>
<td>October 20th-24th 2003, Beijing</td>
</tr>
<tr>
<td>CASS</td>
<td>Eco-Management Strategies and Policies</td>
<td>November 17th-21th 2003, Venice</td>
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<tr>
<td>CASS</td>
<td>Eco-Management Strategies and Policies</td>
<td>December 1st-11th 2003, Venice</td>
</tr>
<tr>
<td>MOST</td>
<td>National and Local Dimension of Sustainable Development</td>
<td>January 8th-17th 2004, Venice</td>
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<tr>
<td>SEPB</td>
<td>Italian Experience of Environmental Management – Study tour</td>
<td>October 2nd-10th 2004, Italy</td>
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<tr>
<td>CASS</td>
<td>Eco-Management Strategies and Policies</td>
<td>October 18th-24th 2004, Beijing</td>
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<tr>
<td>SEPA</td>
<td>Environmental Management and Sustainable Development</td>
<td>November 6th-19th 2004, Italy</td>
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<tr>
<td>MOST</td>
<td>Capacity Building on Sustainable Development</td>
<td>March 1st-4th 2005, Beijing</td>
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<tr>
<td>MOST</td>
<td>Capacity Building on Sustainable Development</td>
<td>March 5th-19th 2005, Italy</td>
</tr>
<tr>
<td>SEPA</td>
<td>Environmental Management and Sustainable Development</td>
<td>July 9th-23rd 2005, Italy</td>
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Main objectives
- To give an overview on SD European management, adopted policies, legislation in force and experiences in specific fields.
- To present the main fields of application of sustainable origin techniques and some case studies of successful applications, both from China and EU countries.
- To focus on topics of special interest: industrial ecology, ecological economics, strategic environmental assessment, environmental auditing.

Topics
- Sustainable Development and Policies
  - The Environmental Challenge, V. Canuto, Columbia University
  - International Sustainable Development: Situation and Progress, H. Jing, ACCA21
  - Plan of Implementation and Type II Initiatives Adopted at Johannesburg, P. Soprano, IMET
Eco-management in the “Sustainable Use and Conservation of Wetland Biodiversity in China”, A. Laurie, UNDP Beijing

International Cooperation Projects on Environmental Protection between Italy and China, A. De Angelis, IMET

Economic and Legal Aspects of Environmental Management

 Foundations of Ecological Economics, Integrated European Approach to Sustainable Development, I. Musu, Ca’ Foscari University of Venice and VIU

 Basic Concept & Theory of Eco-economy, L. Zhou, CASS

 Basic Concepts and Theories for Eco-economics: the Institutional Approach, M. Turvani, Iuav Architecture University of Venice

 International Trade and Sustainable Development, I. Musu, Ca’ Foscari University of Venice and VIU

 Trade, Environment and Sustainable Development, A. Markandya, WB and University of Bath

 The Latest Legal Progress in Sustainable Development, J. Luo, National People’s Congress

 International Conventions, Protocols and Agreements on Environmental Protection, P. Soprano, IMET

 International Environmental Conventions, Protocols and Agreements and their Impacts to China, Q. Daomeng, Nankai University

 Multilateral Environmental Agreements, T. Grof, UNIDO

 Integrated Environmental Policy in the European Union, I. Musu, Ca’ Foscari University of Venice and VIU

 The Role of Legal Principles for Environmental Management, Environmental Harms and European Legislation, EU Environmental Policy, M. Montini, University of Siena

 Regulatory Systems in the European Eco-management, I. Musu, Ca’ Foscari University of Venice and VIU

 EU Environmental Legislation and National Experiences, G. Landi, Regulatory and Environmental Department, DLA Piper

 Introducing New Environmental Laws Policies in China, Z. Tianzhu, Tsinghua University

 Water Ecosystems, Air and Health Management

 Water Scarcity, G.M. Zuppi, Ca’ Foscari University of Venice


 Eco-management in the Exploitation of River Basins, G.M. Zuppi, Ca’ Foscari University of Venice

 How to Balance the Relation between Development and Eco-Protection: the Case of Fresh Water Management, the Case of Ground Water Management, G.M. Zuppi, Ca’ Foscari University of Venice

 Eco-management of Biodiversity in the Mediterranean Sea: Concerns and Strategies, R. Danovaro, Polytechnic University of Marche

 New Development in Water Quality Legislation and Management in Europe, J.M. Martin, former EU JRC Ispra

 Marine Pollution: the Impact of Marine Aquaculture, R. Danovaro, Polytechnic University of Marche
Water Pollution Policy in Europe and in Italy, A. Barbanti, Thetis S.p.A.
Water Pollution in China, L. Hongzhi, SEPA
General Air Pollution Issues, I. Allegrini and F. Vichi, CNR
New Development in Air Quality Legislation and Management in Europe, J.M. Martin, former EU JRC Ispra
Air Quality Control, F. Dalan, ARPAV
Relationship between Health and Environment in EU Policy and Practices, R. Aertgeerts, WHO
Pollution and Health, M. Vazzoler, ARPAV

Sustainable Urban Development
Sustainable Development at Urban Level, R. Pagani, Softech
Theory & Measures of Eco-system Management in Cities, W. Rusong, CASS
Dynamics of Urban Systems & Ecological Management, F. Butera and P. Caputo, Polytechnic of Milano
Sustainability and Urban Planning, M. Savino, University of Messina
The Metabolic Approach, A. Costa, IMET-SICPPMO Beijing and FEEM
Town Planning and Strategic Environmental Assessment (SEA), G. Chielilino, e-Ambiente and Ca’ Foscar University of Venice
Local Agenda 21: Urban Sustainability in Practice, F. Musco, Iuav Architecture University of Venice
Eco-building and Sustainable Development at Urban Level, M. Grosso, Polytechnic of Torino
Eco-management in the Construction of European Cities, F. Butera, Polytechnic of Milano
Italian Experience on Eco-management System Building, F. Butera, Polytechnic of Milano
Sustainable Mobility, M. Mazzon, Thetis S.p.A.
Sustainable Mobility: Mitigation of Traffic Originated Pollution, P. Squillante, Thetis S.p.A.
Interventions for Sustainable Development in China, M. Mazzon, Thetis S.p.A.
Local Governance, Strategic Planning and Participative Processes: the Venice Experience, R. D’Agostino and P. Cacciari, Municipality of Venice
Eco-building in China, N. Meishen, China Housing Industry Association
Waste Management in China, L. Hongzhi, SEPA
Environmental Impact Assessment in the Frame of the Olympic Winter Games of Turin 2006, E. Biginelli, Legambiente – Ecopolis
Plan and Sustainability in the Frame of the Olympics, R. Pagani, Softech

The Evaluation of Eco-compatibility Projects Expected within the Strategic Environmental Assessment of the XX Olympic Winter Games Torino 2006, R. Giordano, TOROC
Evolution of Environmental Issue in the Venice Lagoon, P. Campostrini, CORILA
Measures for the Protection of Venice and its Lagoon: the Defence of the City from High Water, F. De Pol, CVN

Energy, Industry and Sustainable Development
The Climate Problem, A. Navarra, INGV
Energy Management: a Tool for Sustainable Development, M. Martinelli, IMET
Sustainable Energy Systems: Promoting Renewable Energy in Liberalized Markets, A. Lorenzoni, University of Padua and Bocconi University of Milano
Energy Efficiency Case Study: the New Hall of Residence, G. Zanetto, Ca’ Foscar University of Venice
CDM, Governments and Investors: Different Points of View, CDM Opportunities and Threats, CDM the Italian Experience in China, E. Russo, ENEL S.p.A. and IMET
Industrial Ecology, Industrial Ecology and Environmental Leadership, M. Chertow, Yale University
Applications of Industrial Ecology, M. Chertow, Yale University
Environmental Management and China’s Industrial Sustainable Development, P. Sizhen, ACCA21
Cleaner Production in China, C. Wenming, ZFK Environmental Technology Development Ltd
Environmental Auditing and Sustainable Development, G. Chiellino and M. Samiolo, e-Ambiente
Environmental Auditing in Europe, G. Chielilino, e-Ambiente and Ca’ Foscar University of Venice
Brownfields Remediation, S. Soriani, Ca’ Foscar University of Venice
Cost and Benefits of Reclamation Policies, M. Turvani, IUAV Architecture University of Venice
Introduction to European and Italian Policies of Site Reclamation Management, P. Agostini, IDEAS, Ca’ Foscar University of Venice
Reclamation: Theory and Case Studies, A. Barbanti, Thetis S.p.A.
Reclamation Planning of an Industrial Estate Area: the Case of Porto Marghera, A. Barbanti, Thetis S.p.A.
Case Study: Marghera Science and Technology Park VEGA, G. Mattiello, VEGA
Case Study: Bagnoli, Bagnolifutura, C. Azzi, Bagnolifutura S.p.A. di Trasformazione Urbana
**Water**

Water: an issue of global concern, for both the availability and quality of resources in a situation of growing population and increasing demand.

Three courses and a study tour:

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<th>Delegation</th>
<th>Module</th>
<th>Period and Location</th>
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<tr>
<td>MOST</td>
<td>Water</td>
<td>March 22nd-April 2nd 2004, Venice</td>
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<tr>
<td>BMEPB</td>
<td>Water Pollution</td>
<td>November 20th-December 4th 2004, Italy</td>
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<tr>
<td>CASS</td>
<td>Water Pollution – Study Tour</td>
<td>December 11th-19th 2004, Italy</td>
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<tr>
<td>SEPB</td>
<td>Environmental Management and Sustainable Development: focus on Water</td>
<td>June 25th-July 6th 2005, Italy</td>
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</tbody>
</table>

**Main objectives**

- To give the participants an overview of water management strategies at Italian and European level.
- To provide experiences from Venice and its region.
- To focus on topics of special interest: water pollution, degradation of aquatic environments and scarcity of water for anthropic uses.

**Topics**

*Water Management and Water Uses*

- **Environmental Risk Assessment (ERA): Theory and Applications**, A. Marcomini, Ca’ Foscari University of Venice and CVR, and C. Carlon, CVR and JRC
- **Decision Support System for the Rehabilitation of Contaminated Sites**, I. Bazzanella, CVR

**Sustainable Development and Rural Development**

- **Sustainable Agriculture in the Frame of Sustainable Development**, M.L. Gullino, Agroinnova, University of Torino
- **The Global Food Challenge**, P. Fantozzi, University of Perugia
- **New Issues on Rural Development in the Frame of CAP Sustainable Policy**, G. Brunelli and A. Ferraretto, IMET
- **Ecological Farming**, F. Caporali, University of Tuscia
- **The Role of Biotechnology for Environmental Protection**, M. Pasquali, University of Torino
- **European Policy on Biotechnology in Agriculture**, D. Spadaro, University of Torino
- **Biotechnology Application in the European Context**, D. Spadaro, University of Torino
- **Forestry and the Development of Rural Areas**, G. Scarascia Mugnozza, University of Tuscia
- **Biodiversity**, S. Dalmazzone, University of Torino and IRIS
- **Economics and Policy of Biodiversity Loss**, S. Dalmazzone, University of Torino and IRIS
- **Environmental Conservation and Development**, S. Dalmazzone, University of Torino and IRIS

**Site Visits**

- **Sustainable Agriculture**, AGROINNOVA, University of Torino
- **Safeguard of Venice**, CVR
- **Site Reclamation in Practice**, CVR
- **Integration of Traditional and Renewable Energy Sources**, Thermal Power Plant Andrea Palladio, ENEL S.p.A.
- **Clean Energy Resources**, EniTecnologie
- **Safeguard of Venice**, Magistrato alle Acque
- **Urban Sustainability and Transportation**, Municipality of Parma
- **Urban Sustainability in Practice**, Municipality of Torino
- **Strategic Planning and Participative Processes**, Municipality of Venice
- **Sustainable Industry**, Pilkington Italia S.p.A.
- **Environmental Management in Practice**, Thetis S.p.A.
- **Sustainable Industry**, Unindustria
- **Land Reclamation**, VEGA
- **Coastal Management**, Venice Port Authority
Site visits

- Quality Monitoring Program of Sea Water and Ground Water, ARPAV
- Safeguard of Venice, CVN
- Energy from Water, Hydropower plant Soverzene, ENEL S.p.A.
- Waste Water Treatment, Waste Water Treatment Plant Milano Nosedo, Siba S.p.A.
- Water Treatment for Drinkable Water, Water Treatment Plant, SMAT S.p.A.
- Water Management in Practice, Thetis S.p.A.
- Integrated Waste Water Treatment, Integrated Waste Water Treatment Plant, Treviso Municipality and Ca’ Foscari University of Venice
- Drinkable Water, Catchments Field and Potabilisation Plant, VESTA S.p.A.
- Waste Water Treatment, Waste Water Treatment Plant, VESTA S.p.A.
Air Quality

Protection from atmospheric pollutants: one of the key aspects for cities’ sustainable development, aiming at the general protection of population from adverse effects caused by airborne toxic gases and particulate matter.

Two courses:

<table>
<thead>
<tr>
<th>Delegation</th>
<th>Module</th>
<th>Period and Location</th>
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<tr>
<td>CASS</td>
<td>Air Quality and Traffic</td>
<td>October 23rd-November 6th 2004, Italy</td>
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<td>SEPB</td>
<td>Environmental Management and Sustainable Development: focus on Air</td>
<td>September 10th-24th 2005, Italy</td>
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</table>

Main objectives
- To provide the participants with a good knowledge of European policies in terms of air quality.
- To present examples of the most advanced experiences on traffic management and air quality monitoring.
- To meet companies and authorities involved in the projects and share experiences with them.
- To focus on topics of special interest: air pollution, air quality control, intelligent transport systems.

Topics

Policies on Traffic and Air Quality
- Environmental Protection in the 21st Century, Focus on Air: Challenges and Perspectives, C. Baffioni, IMET
- Relationship between Health and Environment in EU Policy and Practices: Focus on Air, M. Krzyzanowsky, WHO
- Air Quality in Cities, L. Susanetti, ARPAV
- Recent Developments of EU Policy in Terms of Traffic. Directives and Regulations, G. Gasparrini, IMET
- Policies for a Sustainable Urban Energy System and Air Quality, L. Zingale, AGIRE

Monitoring and Actions
- Fine Particles Resulting from Combustion, Environmental Deterioration and Effects on Health. Control & Prevention, I. Allegrini, CNR
- Air Quality Control, F. Dalan, ARPAV
- Air Quality Control and Sustainable Mobility, M. Mazzon, Thetis S.p.A.
- ITS and Vehicle Emission Control, F. Costabile, CNR
- ITS Projects, M. Mazzon, Thetis S.p.A.
- Turin as a Case Study for Vehicle Emission Control, F. Profumo, Polytechnic of Torino

Site visits
- Energy Plan, AGIRE
- Sustainable Agriculture, AGROINNOVA, University of Torino
- Role of Regional Agencies in Air Quality Control, ARPAP
- Role of Regional Agencies in Air Quality Control, ARPAV
- Iveco Motors and the New Family Engines (NEF), IVECO S.p.A.
- Transport Control Systems, Motorway Company of Venice and Padua
- Eco-management, Ecomondo, Rimini fair
- Sustainable Mobility, Services for the mobility of the city of Rome, STA
- ITS Projects, Thetis S.p.A.
Waste

The continuous increase in waste production has been placing environment and human health at serious risk; this makes waste management a primary issue at global level for sustainable development.

Two courses:

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<tr>
<th>Delegation</th>
<th>Module</th>
<th>Period and Location</th>
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<tbody>
<tr>
<td>CASS</td>
<td>Waste Management</td>
<td>May 7th-21st 2005, Italy</td>
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<tr>
<td>BMEPB</td>
<td>Solid Waste Management</td>
<td>May 28th-June 11th 2005, Italy</td>
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</tbody>
</table>

Main objectives

- To give an overview on current policies of waste management and integrated waste treatment in Italy and Europe.
- To present the legislative, economic and applicative aspects.
- To focus on topics of special interest: management of urban, industrial and hazardous waste, waste treatment, resources from waste.

Topics

Waste Management

- Waste Management Systems, L. Morselli, University of Rimini
- Waste Management, S. Brida and S. Mastroianni, Consorzio GAIA S.p.A.
- Economic Analysis of Waste Management Policies, A. Massarutto, University of Udine and IEFE
- Legislative Aspects on Waste Management in the EU, F. Benedetti, Consorzio GAIA S.p.A.
- Urban Waste Management, G. Genon, Polytechnic of Torino
- Industrial Waste Management, G. Genon, Polytechnic of Torino
- Waste Management in Firms, A. Tencati, Bocconi University of Milano
- Solid Waste Management in Firms, A. Tencati, Bocconi University of Milano
- Sanitary Landfill Management, B. Spadoni, Consorzio GAIA S.p.A.

Hazardous Waste

- Hazardous Waste, A. Marchini, VESTA S.p.A.
- Hazardous and Potentially Infective Waste Management, S. Benedetti, Consorzio GAIA S.p.A.
- Hospital Waste, E. Pira and I. Pavan, University of Torino
- Manganese: Uses, Exposures, Risks and Preventive Strategies, E. Herrero Hernandez, University of Torino

Waste Treatment

- Technical Treatment and Process of some Special Wastes, S. Mastroianni, Consorzio GAIA S.p.A.
- Decontamination of Polluted Sites: Experiences inside Porto Marghera, a Site of National Concern, G. Marchiori, VESTA S.p.A.
- Composting: European Rules and Techniques, G. Minuto, CeRSA
- E-waste Management and Ecoink Case Study, L. Pezzato, Ecoink
- Lca and Integrated Environmental Monitoring System as Joint Tools for Incinerator Environmental Impact Assessment, L. Morselli, University of Rimini
- Integrated Waste Management Project, Polo Fusina, A. Marchini, VESTA S.p.A.

Site visits

- Organic Waste Management, AMA S.p.A.
- Compost Treatment, Compost Treatment Plant, ACEA Pinerolesce S.p.A.
- Energy from Waste, Waste-to-Energy Plant, ASM Brescia
- Waste Management Systems, Consorzio GAIA S.p.A.
- Landfill Leachate Treatment, Landfill Leachate Treatment Plant, Depuracque servizi srl
- Separate Waste Management, Novamont S.p.A.
- Landfill Management, Ginestreto Controlled Landfill, Sogliano Ambiente S.p.A.
- Waste Management System, Rimini Campus Branch, University of Bologna
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.

Four courses:

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<tr>
<td>MOST</td>
<td>Renewable Energy</td>
<td>March 1st-5th 2004, Beijing</td>
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<tr>
<td>MOST</td>
<td>Renewable Energy</td>
<td>March 6th-19th 2004, Venice</td>
</tr>
<tr>
<td>CASS</td>
<td>Energy Efficiency</td>
<td>January 22nd-February 5th 2005, Italy</td>
</tr>
<tr>
<td>MOST</td>
<td>Development and Application of Clean Renewable Energies</td>
<td>April 2nd-16th 2005, Italy</td>
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</tbody>
</table>

Main objectives

- To present the main issues linked to energy and its growing use in the world.
- To illustrate different ways to meet energy demand through energy efficiency and the use of renewable energy.
- To focus on topics of special interest: energy efficiency, renewable sources.

Topics

Sustainable Energy Systems and Energy Efficiency

- The Global Scenario for Energy Demand, M. Martinelli, IMET
- Climate Change & Clean Development Mechanisms, R. Valentini, EniTecnologie
- Clean Development Mechanisms (CDM), L. Deshun, Tsinghua University
- Market Mechanisms, G. Pireddu, University of Milano Bicocca
- Economic Evaluation of Energy Saving Investments, M. Bianchi, D’Appolonia S.p.A.
- Some Concepts: Demand Side Management, Energy Efficiency and Load Management, M. Pavan, Italian Regulatory Authority for Electricity and Gas

Renewable Energies

- Fuel Shift and Renewable Energies, L. Zingale, AGIRE
- The Present and Future Scenario for Renewable Energy in China, B. Li, MOST Reform Commission
- Research and Development of Solar, Biomass and Geothermal Energy, M. Martinelli, IMET and M. Diesendorf, Sustainability Centre Pty Ltd, Sydney
- Policies and Development Strategy of Renewable Energy in China, S. Gu, Tsinghua University
- Case Studies of Renewable Energy in China, Z. Zhang
- Geothermal Energy: from the Heart of the Earth, R. Bertani, ENEL Green Power
- Geothermal Energy: the Case Study of the Olympic Village in Beijing, R. Bertani, ENEL Green Power
- Geothermal Energy and its Industrial Application, with Special Focus on the Production of Electricity, R. Bertani, ENEL Green Power
- Geothermal Energy in China: the Yang-Bajing (Tibet) Geothermal Field, R. Bertani, ENEL Green Power
- Biomass: Problem or Opportunity?, B. Fierro, Cannon Bono SISTEMI
Industries have a key role in sustainable development: they have to meet the increasing demand of consumers and, at the same time, deal with the scarcity of raw materials and the reduction of their environmental impact.

One course:

**Main objectives**

- To provide the participants with some suggestions and explanations concerning the role of industry in the new challenges for environmental protection throughout products’ life cycle.
- To present the main policies in this field, through the analysis of the most important regulations and directives about waste and water control in Italian and European legislation.
- To focus on topics of special interest: industrial ecology, environmental auditing, green chemistry.

**Topics**

**Industrial Environmental Issues**

- **Biotechnology, Sustainable Development and Protection of Intellectual Property Rights**, I. Musu, Ca’ Foscari University of Venice and VIU
- **Green Chemistry and New Technologies, Applications of Green Chemistry to Pollution Control**, P. Tundo, Ca’ Foscari University of Venice and Interuniversity Consortium “Chemistry for the Environment”

**Sustainable Industry**

- **Industrial Ecology, Industrial Ecology and Environmental Leadership**, M. Chertow, Yale University
- **Environmental Auditing in Industrial Firms**, G. Chiellino, e-Ambiente and Ca’ Foscari University of Venice
- **Mines Risks and Prevention Strategies**, M. Coggiola, University of Torino
- **Recycle of Industrial Organic Waste**, G. Minuto, CeRSAA
- **A Case Study: VEGA, the Venice Gateway for Science and Technology Park**, G. Mattiello, VEGA

**Site Visits**

- **Energy from Biomass**, Biomass Co-generation Plant, Cannon Bono SISTEMI
- **Integration of Traditional and Renewable Energy Sources**, Thermal Power Plant Andrea Palladio, ENEL S.p.A.
- **Sustainable Energy**, Thermal Power Plant Porto Tolle, ENEL S.p.A.
- **Wind Energy**, Wind Farm, IVPC srl
- **Eco-building**, Tifs Ingegneria srl
- **Integrated Waste Water Treatment**, Integrated Waste Water Treatment Plant, Treviso Municipality and Ca’ Foscari University of Venice
- **Integrated Waste Treatment Plant**, VESTA S.p.A.
- **Land Reclamation**, VEGA
- **Clean Energy Resources**, EniTecnologie

**Ecological Industrial Development**

Industries have a key role in sustainable development: they have to meet the increasing demand of consumers and, at the same time, deal with the scarcity of raw materials and the reduction of their environmental impact.

**Main objectives**

- To provide the participants with some suggestions and explanations concerning the role of industry in the new challenges for environmental protection throughout products’ life cycle.
- To present the main policies in this field, through the analysis of the most important regulations and directives about waste and water control in Italian and European legislation.
- To focus on topics of special interest: industrial ecology, environmental auditing, green chemistry.

**Topics**

**Industrial Environmental Issues**

- **Biotechnology, Sustainable Development and Protection of Intellectual Property Rights**, I. Musu, Ca’ Foscari University of Venice and VIU
- **Green Chemistry and New Technologies, Applications of Green Chemistry to Pollution Control**, P. Tundo, Ca’ Foscari University of Venice and Interuniversity Consortium “Chemistry for the Environment”

**Sustainable Industry**

- **Industrial Ecology, Industrial Ecology and Environmental Leadership**, M. Chertow, Yale University
- **Environmental Auditing in Industrial Firms**, G. Chiellino, e-Ambiente and Ca’ Foscari University of Venice
- **Mines Risks and Prevention Strategies**, M. Coggiola, University of Torino
- **Recycle of Industrial Organic Waste**, G. Minuto, CeRSAA
- **A Case Study: VEGA, the Venice Gateway for Science and Technology Park**, G. Mattiello, VEGA
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.

Two courses:

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<tr>
<th>Delegation</th>
<th>Module</th>
<th>Period and Location</th>
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<tr>
<td>MOST</td>
<td>Capacity Building on Clean Development Mechanism</td>
<td>October 18th-22nd 2004, Beijing</td>
</tr>
<tr>
<td>MOST</td>
<td>Capacity Building on Clean Development Mechanism</td>
<td>December 4th-18th 2004, Italy</td>
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Main objectives

- To present the main problems linked to climate change, the scientific evidence of human impact on the atmosphere and the possible ways to face the issues raised.
- To provide an overview on Clean Development Mechanism, its origin and objectives, opportunities, barriers, costs and how to structure a CDM project.
- To focus on topics of special interest: climate change, CDM.

Topics

Climate Change

- Climate Change and Global Warming, A. Longhetto, University of Torino
- Climate Change Scenarios, A. Navarra, INGV
- Human Forcing on Climate Change, A. Tartaglia, Polytechnic of Torino
- Social and Economic Impacts of Climate Change and Countermeasures, Y. Ding, China Meteorological Administration
- Effects of Climate Change on Plant Diseases, M.L. Gullino, AGROINNOVA, University of Torino
- Demand and Opportunities for Technology Transfer of Best Available Environmental Technologies from Abroad into P.R.China, M. Schwegler, Centre for Environmentally Sound Technology Transfer

Clean Development Mechanism

- International Negotiations on Climate Change and CDM, F. Gao, Ministry of Foreign Affairs of China
- Developing CDM Projects, M. Balasini, IMET
- CDM: the Point of View of International Investors, E. Russo, ENEL S.p.A. and IMET
Sustainable Urban Development and Ecobuilding

Urban areas are key places for sustainable development. Ecobuilding links the key aspects of sustainable urban development with energy efficiency.

One course:

<table>
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<th>Delegation</th>
<th>Module</th>
<th>Period and Location</th>
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<tr>
<td>CASS</td>
<td>Sustainable Urban Development and Eco-building</td>
<td>January 8th-22nd 2005, Italy</td>
</tr>
</tbody>
</table>

Main objectives
- To identify urban sustainability issues.
- To analyze urban sustainable policies.
- To explore new solutions in building technologies improving energy efficiency and savings, avoiding heat dispersion and offering at the same time better life conditions.
- To focus on topics of special interest: ecobuilding, energy efficiency, participatory approach.

Topics

Ecological Urban Planning
- Urban Sustainability, A. Costa, IMET-SICPPMO Beijing and FEEM
- Sustainable Plan model, G. Longhi, Iuav Architecture University of Venice
- Local Agenda 21, E. D’Alessio, Italian Local Agenda 21 Network
- Urban Sustainable Policy in Italy, P. Soprano, IMET

Eco-building and Energy Efficiency
- Sustainable Architecture. Policies, Trends and Initiatives of Eco-building in Italy, S. Giuliani, IMET
- Energy Optimization of Building-plant System, L. Schibuola, Iuav Architecture University of Venice
- Energy Saving in Historical Buildings and Hospital Plant Systems, M. Strada, Iuav Architecture University of Venice
- LTDS: Low Temperature Different System, New Developments and Case Study, M. De Carli, University of Padua
- Ecological and Energy Efficient Building, M. Cucinella, MCArchitects

Site visits
- Olympic Village, Turin Winter Olympics Village
- Eco-building, Tifs Ingegneria srl
Site Visits

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

**Compost Treatment**

**Institution**
ACEA PINEROLESE S.p.A.
via Vigone 42, 10064 Pinerolo, Cuneo
www.aceapinerolese.it/homepage.html

**Site Visit Objectives**
To illustrate one of the main compost treatment plants in the Piemonte region.
To describe the origins, the chemical, physical and biological trials of composting process as well as the positive repercussions on the environment.

**Institution Profile**
ACEA Group is a “multiutility” structure that manages a plurality of services for municipalities, companies and citizens. The Group’s activities concern the water compartment, specifically integrated water cycle management; the energetic sector with methane gas distribution; heat management and sale of electricity; collection, treatment and waste disposal.

**Municipal Energy Planning & Energy Policy**

**Institution**
AGIRE Venice Energy Agency
via delle Industrie 17/a, 30175 Marghera, Venice
www.veneziaenergia.it

**Site Visit Objectives**
To present the experience of an urban scale energy planning and management in the city of Venice.

**Institution Profile**
Venice Energy Agency is a specialised body fostered by Venice Municipality and VESTA, the multiutility service company that supplies environmental services in the city of Venice and promoted by the European Commission’s Programme SAVE for energy agencies. Its objective is to monitor and implement Venice’s strategy for energy and CO2, as defined in the Municipal Energy Plan of the Kyoto Protocol target year 2010. High efficiency energy technologies, renewables, fuel shift policies, information, education and training are the Agency’s axes of intervention.

**Sustainable Agriculture**

**Institution**
AGROINNOVA Centre of Competence for the Innovation in the Agro-environmental Sector, University of Torino
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 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, lifelong learning and communication on up-to-date topics in the above-stated sectors. Four 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 (Beijing, Belgrad). 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.

Organic Waste Management
Institution
AMA Azienda Municipale Ambiente di Roma, Composting Plant of Maccarese
della’Olmazzeto I 57, Rome
www.amaroma.it
Site Visit Objectives
To demonstrate how the plant transforms organic waste collected from the neighborhood’s markets, supermarkets, restaurants, coffee shops into fertilizer for agricultural uses.

Institution Profile
AMA S.p.A., Azienda Municipale Ambiente (Municipal Environmental Company) – funded in 1985 – is an Italian leading company in environmental services and urban solid waste management. AMA provides urban hygiene services throughout Rome Municipality – the largest in Italy – by ensuring the daily collection, haulage and disposal of about 4,000 tons of wastes, street and pavement cleaning covering a total area of 25 million square meters and the cleaning of 250 local markets, 5 big city markets and weekly markets. Moreover, AMA is in charge of the separate collection of glass, plastic, aluminum and metal, the recovery of hazardous urban waste such as batteries and pharmaceutical products, vehicle batteries and abandoned syringes and – upon request – the cleaning of cesspools.

Role of Regional Agencies in Air Quality Control
Institution
ARPAP Regional Agency for Environmental Prevention and Protection in Piemonte, Turin Provincial Department
Corso Unione Sovietica 216, angolo via Filadelfia c/o C.S.I., Turin
www.arpa.piemonte.it
Site Visit Objectives
To describe the activities dealing with the monitoring and forecast of ambient air quality, meteorology and natural hazards carried out by the Department of Environmental Monitoring and Forecast.

Institution Profile
Environmental prevention and control duties were assigned to the relevant Regional Agencies by the Law n. 61 of 1994. The agencies became the centres for local environmental vigilance and control.
Arpa Piemonte is a public body whose main institutional duties are: pollution prevention, control and monitoring; organization and distribution of environmental information; natural hazards prevention; technical and scientific support to local authorities on any environmental topic.

Role of Regional Agencies in Air Quality Control
Institution
ARPAV Regional Agency for Environmental Prevention and Protection in Veneto, Venice Provincial Department
via Lissa 6, 30171 Mestre, Venice
www.arpa.veneto.it
Site Visit Objectives
To present the role, the activities and tasks carried out by the Italian Regional Environmental Protection Agencies concerning air quality control in order to spread the knowledge of environmental policies in Italy and Europe.

Institution Profile
Environmental prevention and control duties were assigned to the relevant Regional Agencies by the Law n. 61 of 1994. The agencies became the centres for local environmental vigilance and control. The Veneto Agency ARPAV was founded by the Regional Law n. 32 of 18/10/1996 and became operative on October 3rd 1997. The agency pursues two closely linked objectives: protection, through environmental controls preserving the population’s health and territorial safety; prevention, through research, training, information and environmental education. It operates on a triennial plan basis and on an annual program.

Quality Monitoring Program of Sea Water and Ground Water
Institution
ARPAV Regional Agency for Environmental Prevention and Protection in Veneto, Venice Provincial Department
via Lissa 6, 30171 Mestre, Venice
www.arpa.veneto.it
Site Visit Objectives
To present ARP’A’s quality monitoring program experience.

Energy from Waste
Institution
ASM Brescia 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 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).

Energy from Biomass
Institution
Cannon Bono SISTEMI Biomass Fired Cogeneration 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 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
Consorzio GAIA S.p.A.
via Carpinetana sud 144, 00034 Colleferro, Rome
www.consorziogaia.it
Site Visit Objectives
To present some experiences in waste management.

Institution 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
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.

Institution 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.

Site Reclamation in Practice
Institution
CVR Consorzio Venezia Ricerche
via della Libertà 5/12, 30175 Marghera, Venice
www.veneziaricerche.it
Site Visit Objectives
To present a practical example of how site reclamation issues are managed, by combining academic research with the specific requirements of public and private sectors.

Institution Profile
Consorzio Venezia Ricerche is a non-profit consortium founded in 1989 representing a trait d’union between the University of Venice, research centres, public bodies and private companies. The Consortium aims at developing research programmes based on advanced scientific methodologies; it boasts an important experience in the creation and coordination of applied research projects both at national and international level. One of the consortium’s fields of research is the evaluation of new technologies for the reduction of environmental impacts and their validation. Recent projects include Sediments Remediation Technologies (SeRTech) and Decision Support System for Contaminated Sites Rehabilitation (Desyre), both addressing environmental recovery and requalification of contaminated megasites.

Energy Efficiency/Energy Saving and CDM Project Development
Institution
D’APPOLONIA S.p.A.
via San Nazaro 19, 16145 Genoa
www.dappolonia.it
Site Visit Objectives
To present some case studies on the improvement of energy efficiency in industrial sites both in Europe and China.
To present some applications of CDM project analysis and development, from energy efficiency and landfill to energy projects.
Institution Profile
D’Appolonia S.p.A. is an Italian engineering firm that provides design and consulting services in the fields of environment, energy, infrastructures, space, defence and transportation, with research and development contributions. D’Appolonia has a team of 200 scientists, engineers and technical staff. Since 2001, it is actively developing projects in China in close cooperation with several Chinese institutions acting on behalf of the Italian Ministry for Environment and Territory in the fields of energy efficiency, CDM project development, remote sensing and sustainable development.

Landfill Leachate Treatment
Institution
Depuracque servizi srl Waste Water Treatment Plants
via Roma 145, 30030 Salzano, Venice
www.depuracque.it

Site Visit Objectives
To help understanding the main steps of sound waste water disposal through chemical-physical, biological and vacuum evaporation treatments.

Institution Profile
Depuracque servizi srl is an industrial group established in the early seventies specialised in the design and construction of industrial wastewater treatment plants. Today, it operates in the field of environmental protection and reclamation. Its main activities are the treatment, recovery and disposal of special, toxic/noxious hazardous and non hazardous waste for third parties, the implementation of safety measures and the monitoring, design and reclamation of contaminated sites. It also carries out the planning and remediation of contaminated sites with stationary and mobile equipment.

Integration of Traditional and Renewable Energy Sources
Institution
ENEL S.p.A. Power Plant Andrea Palladio, Fusina
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.

Institution 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.

Sustainable Energy
Institution
ENEL S.p.A. Thermal Power Plant
Porto Tolle, Rovigo
www.enel.it

Site Visit Objectives
To present one of the main thermal power plants in Northern Italy as an example of resource management in the sector of energy production.
To exchange views on the applications of best environmental management techniques on the industrial sector and the use of eco-labels such as ISO 14001.

Energy from Water
Institution
ENEL S.p.A. Hydropower Plant Soverzene
via Roma 6, Soverzene, Belluno
www.enel.it

Site Visit Objectives
To present one of the main hydropower plants in Veneto region as an example of resource management in the sector of energy production.

Clean Energy Resources
Institution
EniTecnologie, the Corporate Technology Company of Eni, Photovoltaic activity
via Augusto D’Andrea 6, 00048 Nettuno, Rome
www.enitecnologie.it/index_en.htm

Site Visit Objectives
To present some important experiences carried out by the major centres of excellence on industrial research concerning the use and research of renewable sources taking into account sustainable development.

Institution Profile
EniTecnologie works in the sectors of energy, hydrocarbon derived products and alternative sources, innovating while fully respecting the environment and with a view to sustainability. In particular, it investigates innovative technological ideas in sectors linked to oil and gas, power generation, renewable energies, fuels and derived products value chains. EniTecnologie safeguards technological know-how and industrial property in strategic energy sectors and maintains an observatory on the future of technologies and on technological innovation strategies at international level.

Agriculture and Global Change
Institution
EUROFACE
via San Camillo de Lellis I, 01100 Viterbo
www.unitus.it/euroface

Site Visit Objectives
To provide an overview on the functional responses of a cultivated agro-forestry system to the actual and future atmospheric...
CO2 concentrations, on the basis of the experimentation carried out on a multiclonal poplar plantation.

**Institution Profile**

EUROFACE is an experimental centre of the University of Tuscia. Euroface is an integrated European scientific infrastructure for studies on global changes concerning forests and agro-forest ecosystems using FACE (Free Air CO2 Enrichment) technology. The original infrastructure and initial research activities were supported by the European Commission.

The plantation and FACE facility are located in central Italy, near the city of Tuscania, in the province of Viterbo. **P.x euramericana (I-214)** cuttings were planted during spring 1999, over 9 ha of former wheat field. Within this plantation, 6 experimental plots were equally spaced in order to avoid enrichment pollution of “control” plots with air blown in from ‘FACE’ plots.

**Wind Energy**

**Institution**

IVPC srl Italian Vento Power Corporation
via Piemonte 39, 00187 Rome
www.ivpc.com

**Site Visit Objectives**

To present the functioning of a wind farm through the activities of a company leader in the sector of wind energy in Italy.

**Institution Profile**

IVPC was founded in September 1993 in Avellino, the location of its legal and administrative offices, and in just a few years, it has become the most prominent company in its sector.

IVPC built 40 wind farms located in Basilicata, Campania, Molise, Puglia, Sardinia and Sicily. IVPC installed a total of 626,57 MW that are in production in its 40 wind farms located in six Italian regions. In 2004, the total wind energy power produced by IVPC wind farms was about 1,2 TWh.

**Transport Control System**

**Institution**

Motorway Company of Venice and Padua Control Center of the Venice-Mestre Ring Road
via Bottenigo 64/a, 30175 Marghera Venice
www.autovepd.it

**Site Visit Objectives**

To present “T3” and “Marco” Systems as examples of innovative control systems for an effective traffic flow management.

**Institution Profile**

The Motorway Company of Venice and Padua is in charge of 41.8 km, including the Mestre ring road. The shareholders of the motorway company are: the provinces of Venice and Padua, the municipalities of Venice and Padua, the Chambers of Commerce of Venice and Padua, the Venice Port Authority, SAVE S.p.A. (company that also operates the airport of Venice), Autovie Venete S.p.A. and the Motorway Company of Brescia, Verona, Vicenza, Padova S.p.A..

**Iveco Motors and the New Family Engines (NEF)**

**Institution**

IVECO S.p.A.
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 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 goods 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.

**Separate Waste Management**

**Institution**

Novamont S.p.A. Biodegradable Plastic Producer
via G. Fauser 8, 28100 Novara
www.novamont.com

**Site Visit Objectives**

To present an example of an effective separate garbage collection in the surroundings of Novara using bags and linings produced with Novamont’s raw material Mater-Bi™ for the collection of the organic part of solid municipal waste.
**Institution Profile**
Novamont is an innovative company that produces mainly a bioplastic named Mater-Bi™. Novamont’s project, which stemmed from this concept, aims at finding new ways of using vegetable raw materials and transforming them into bio-plastics for specific applications with low environmental impact. Bio-plastics have all the properties of traditional materials but they can also be completely biodegradable. Today, Novamont provides response for a truly sustainable growth.

**Sustainable Industry**

**Institution**
Pilkington Italia SpA
via delle Industrie 46, 30175 Porto Marghera, Venice
www.pilkington.com

**Site Visit Objectives**
To present an example of a firm able to combine high levels of production with environmental protection by integrating quality and safety in a comprehensive certified environmental management system.

**Institution Profile**
Pilkington is a group of companies specialized in the production of glass for buildings. The Porto Marghera firm, located in the industrial area of Venice, produces plain, light, colored glass slabs, in paste or laminated, with a total annual gross capacity of 200,000 tons. The extension of this plant is 150,000 square metres.

**Ecomanagement**

**Institution**
RIMINI FIERA S.p.A. Ecomondo Exhibition
via Emilia 155, 47900 Rimini
www.ecomondo.it, www.riminiferia.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 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.

**Waste Water Treatment**

**Institution**
Siba S.p.A. Waste Water Treatment Plant Nosedo Milano
via San Dionigi 90, Milan

**Site Visit Objectives**
To illustrate the characteristics of the firm and how it manages the construction and maintenance phase of the biggest Waste Water Treatment Plant of Milan during its 15 years concession (1, 25 million inhabitants with an investment cost of 140 million euro).

**Institution Profile**
SIBA S.p.A. is a joint venture leading company that built one hundred waste water treatment plants with different capacities. It manages the main Italian concession in water field with a project financing scheme (B.O.O.T.).
Site Visit Objectives
To present some practical examples of traffic control through the experience of the Traffic Control Centre in Rome.

Institution Profile
STA, Services for Mobility, is a company owned by the Municipality of Rome aiming at supplying strategic and planned solutions concerning the city’s mobility. Through its competences, STA develops projects and services with new technologies paying attention to urban requalification and environment.

Water Management in Practice
Institution
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.

Institution 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).

ITS Projects
Institution
Thetis S.p.A.
Castello 2737/f, 30122 Venice
www.thetis.it/default.htm

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.

Environmental Management in Practice
Institution
Thetis S.p.A.
Castello 2737/f, 30122 Venice
www.thetis.it/default.htm

Site Visit Objectives
To present the company’s projects carried out in Italy and China as examples of sustainable management solutions for specific problems.

Eco-building
Institution
Tifs Ingegneria srl
Padua
www.tifs.it (under construction)

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 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
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 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 Ca’ Foscari University of Venice and from other linked universities.

Sustainable Industry
Institution
Unindustria Industrialists’ Association of the Province of Venice
via delle Industrie 19, 30175 Marghera, Venice
www.unindustria.venezia.it

Site Visit Objectives
To present Unindustria as an example of the importance and necessity of involving the industry for a sound management of the environment. To develop in the industrial world a new vision of environment, not considered as something based only on rules, taxes and sanctions to comply with, but as an internal element and value for the company to manage.

Institution Profile
Unindustria is an association of industries and industrial managers of the Province of Venice. Economical profit not being its objective, it aims at representing and supporting its members, promoting the creation of new firms and developing the existing ones. It provides its members with advice on trade union matters, business management, taxes and fiscal issues, press service and general information.
Waste Management Systems
Institution
University of Bologna Rimini Campus Branch
via Angherà 22, Rimini
www.polorimini.unibo.it
Site Visit Objectives
To explore the waste management experience of a university operating in this field.
To present a new university, deeply involved in finding new ways of linking academic knowledge with productive sectors.
Institution Profile
Rimini University Campus Branch was instituted in November 2001 with the decentralisation process of the University of Bologna and was given partial financial administrative, teaching and scientific autonomy. The academic programme (nearly 20 courses every year) offers traditional courses such as Economic Sciences and Business Economics, Statistics, Chemistry, Pharmacy, Nursing and Education, as well as new courses connected to tourism, fashion, environment, sport and the body’s well-being.

Land Reclamation
Institution
VEGA Scientific and Technological Park of Venice
via della Libertà 5/12, 30175 Marghera, Venice
www.vegapark.it
Site Visit Objectives
To offer a good example of how a site reclamation could be an opportunity for the economical and environmental sustainable re-development of an industrial area: VEGA, built over a former polluted industrial site after its remediation, is the City of Technology and Innovation for the Municipality of Venice.
Institution Profile
VEGA, located in Marghera (the industrial area of Venice), 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.

Coastal Management
Institution
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 context such as the lagoon’s ecosystem.
Institution 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.

Drinkable Water
Institution
VESTA S.p.A. Catchment Fields and Potabilisation Plant
Ca’ Solaro, Favaro Veneto, Venice
www.vestaspa.net
Site Visit Objectives
To provide an overview on different aspects concerning drinkable water management, by presenting VESTA’s experiences in this field. In particular, groundwater catchment site in Quinto di Treviso and potabilisation plant of Ca’ Solaro were visited.
Institution 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.

Integrated Waste Treatment
Institution
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.

Hazardous Waste Management
Institution
VESTA S.p.A. Inertization Plant
Fusina, Venice
Site Visit Objectives
To present an example of sound management of hazardous waste such as contaminated soils and sludge coming from the restoration activities of Venice’s Lagoon.

Waste Water Treatment
Institution
VESTA S.p.A. Waste Water Treatment Plant
Fusina, Venice
Site Visit Objectives
To present an example on an effective urban and industrial waste water management through an integrated system.
## Training Profile Data

### Training courses 2003-2004

<table>
<thead>
<tr>
<th>Delegation</th>
<th>Course</th>
<th>General Schedule</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>CASS</td>
<td>Eco-Management Strategies and Policies</td>
<td>Nov.17th-23rd 2003</td>
<td>41</td>
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<td>CASS</td>
<td>Eco-Management Strategies and Policies</td>
<td>Dec. 1st-11th 2003</td>
<td>43</td>
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<td>MOST</td>
<td>National and Local Dimension of Sustainable Development</td>
<td>Jan. 8th-17th 2004</td>
<td>35</td>
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<td>CASS</td>
<td>Eco-management Strategies and Policies</td>
<td>Feb. 9th-13th 2004</td>
<td>40</td>
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<tr>
<td>MOST - Beijing</td>
<td>Renewable Energy</td>
<td>Mar. 1st-5th 2004</td>
<td>42</td>
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<td>Renewable Energy</td>
<td>Mar. 6th-19th 2004</td>
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<tr>
<td>MOST</td>
<td>Water</td>
<td>Mar.22nd-Apr. 2nd 2004</td>
<td>39</td>
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</table>

Total courses in Italy: 7  
Total courses in Beijing: 3  
Total participants: 509  
Total participants in Italy: 277
### Training courses 2004-2005

<table>
<thead>
<tr>
<th>Delegation</th>
<th>Course</th>
<th>General Schedule</th>
<th>Participants</th>
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</thead>
<tbody>
<tr>
<td>SHEPB – Study tour</td>
<td>Italian Experience of Environmental Management</td>
<td>Oct. 2nd-10th 2004</td>
<td>5</td>
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<tr>
<td>MOST – Beijing</td>
<td>Capacity building on Clean Development Mechanism</td>
<td>Oct. 18th-22nd 2004</td>
<td>30</td>
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<td>BMEPB</td>
<td>Air Quality and Traffic</td>
<td>Oct. 23rd-Nov. 6th 2004</td>
<td>21</td>
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<td>SEPA</td>
<td>Environmental Management and Sustainable Development</td>
<td>Nov. 6th-13th 2004</td>
<td>17</td>
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<td>CASS</td>
<td>Water Pollution</td>
<td>Nov. 20th-Dec. 4th 2004</td>
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<td>MOST</td>
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<td>Dec. 4th-18th 2004</td>
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<td>Water Pollution Control</td>
<td>Dec. 11th-19th 2004</td>
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<td>Jan. 22nd-Feb. 5th 2005</td>
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<td>Development and application of Clean Renewable Energies</td>
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<td>Waste Management</td>
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<td>Solid Waste Management</td>
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<td>Jun. 11th-25th 2005</td>
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<td>SEPPE</td>
<td>Environmental Management and Sustainable Development: focus on Water</td>
<td>Jun. 25th-Jul. 6th 2005</td>
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<td>Environmental Management and Sustainable Development</td>
<td>Jul. 9th-23rd 2005</td>
<td>20</td>
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<td>SEPA</td>
<td>Environmental Management and Sustainable Development: focus on Air</td>
<td>Sep. 10th-24th 2005</td>
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</table>

Total courses in Italy: 16
Total courses in Beijing: 3
Total participants: 619
Total participants in Italy: 399

### Training courses 2005-2006

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<tr>
<th>Delegation</th>
<th>Course</th>
<th>General Schedule</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOST – Beijing</td>
<td>Capacity Building on Clean Development Mechanism</td>
<td>Oct. 24th-28th 2005</td>
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<tr>
<td>MOST</td>
<td>Capacity Building on Clean Development Mechanism</td>
<td>Oct. 29th-Nov. 12th 2005</td>
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<td>BMEPB</td>
<td>Environmental Management Mechanism</td>
<td>Nov. 12th-26th 2005</td>
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<td>Sustainable Urban Development and Eco-Building</td>
<td>Nov. 26th-Dec. 12th 2005</td>
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<td>Energy Efficiency</td>
<td>Dec. 9th-23rd 2005</td>
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<td>BMEPB</td>
<td>Environmental Education</td>
<td>Jan. 7th-21st 2006</td>
<td>21</td>
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<td>Sustainable Development and Environmental Management</td>
<td>Feb. 11th-25th 2006</td>
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<td>MOST</td>
<td>Clean and Renewable Energies</td>
<td>Feb. 25th-Mar. 11th 2006</td>
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<td>CASS</td>
<td>Waste Management</td>
<td>Mar. 3rd-18th 2006</td>
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<td>SEPPE – Shanghai</td>
<td>Capacity Building on Clean Development Mechanism</td>
<td>Mar. 22nd-24th 2006</td>
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<td>MOST – Beijing</td>
<td>Capacity Building on Sustainable Development</td>
<td>Mar. 27th-31st 2006</td>
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<tr>
<td>MOST</td>
<td>Capacity Building on Sustainable Development</td>
<td>Apr. 1st-15th 2006</td>
<td>31</td>
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<tr>
<td>CASS</td>
<td>Water Pollution</td>
<td>May 13th-27th 2006</td>
<td>42</td>
</tr>
<tr>
<td>SEPPE</td>
<td>Sustainable Urban Development</td>
<td>May 27th-Jun. 10th 2006</td>
<td>15</td>
</tr>
<tr>
<td>SEPA</td>
<td>Sustainable Development and Environmental Management</td>
<td>Jun. 10th-24th 2006</td>
<td>21</td>
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<td>MOST</td>
<td>Marine Environmental Development</td>
<td>Jun. 24th-Jul. 8th 2006</td>
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<td>BMEPB</td>
<td>Ecosystem Conservation</td>
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<td>Sep. 2nd-16th 2006</td>
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<td>SEPA</td>
<td>Environmental Legislation and Enforcement</td>
<td>Nov. 4th-18th 2006</td>
<td>15</td>
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</tbody>
</table>

Total courses in Italy: 16
Total courses in Beijing: 3
Total courses in Shanghai: 1
Total participants: 703
Total participants in Italy: 458
Training lecturers
During the first two years of training activities, more than 150 lecturers have contributed to the trainings. 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 have been invited.

![Figure 1. Lecturers’ affiliation](image)

Training participants
More than 1000 participants have attended training until now. Although most of the trainees came from Beijing, all the Chinese provinces were represented, with their needs, peculiarities and specific issues.

![Figure 2. Trainees’ provenience](image)

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

![Figure 3. Trainees’ affiliation](image)

List of Acronyms

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCA21</td>
<td>Administrative Centre for China’s Agenda 21</td>
</tr>
<tr>
<td>AGIRE</td>
<td>Venice Energy Agency</td>
</tr>
<tr>
<td>AMA</td>
<td>Azienda Municipale Ambiente – Municipal Environment Agency</td>
</tr>
<tr>
<td>ARPAP</td>
<td>Agenzia Regionale per la Prevenzione e Protezione Ambientale del Piemonte – Piedmont Regional Agency for Environmental Prevention and Protection</td>
</tr>
<tr>
<td>ARPAV</td>
<td>Agenzia Regionale per la Prevenzione e Protezione Ambientale del Veneto – Veneto Regional Agency for Environmental Prevention and Protection</td>
</tr>
<tr>
<td>ASM</td>
<td>Azienda dei Servizi Municipalizzati di Brescia – Brescia Municipal Services Agency</td>
</tr>
<tr>
<td>BMEMPB</td>
<td>Beijing Municipal Environmental Protection Bureau</td>
</tr>
<tr>
<td>CAS</td>
<td>Chinese Academy of Sciences</td>
</tr>
<tr>
<td>CASS</td>
<td>Chinese Academy of Social Sciences</td>
</tr>
<tr>
<td>CERS</td>
<td>China Energy Research Society</td>
</tr>
<tr>
<td>CeRSAA</td>
<td>Centro Regionale di Sperimentazione ed Assistenza Agricola – Regional Center for Experimentation and Assistance in Agriculture</td>
</tr>
<tr>
<td>CNR</td>
<td>Consiglio Nazionale delle Ricerche – National Research Council</td>
</tr>
<tr>
<td>CORILA</td>
<td>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</td>
</tr>
<tr>
<td>CVN</td>
<td>Consorzio Venezia Nuova – Venezia Nuova Consortium</td>
</tr>
<tr>
<td>CVR</td>
<td>Consorzio Venezia Ricerche – Venezia Research Consortium</td>
</tr>
<tr>
<td>ENEA</td>
<td>Ente per le Nuove tecnologie, l’Energia e l’Ambiente – Agency for New Technologies, Energy and Environment</td>
</tr>
<tr>
<td>FEEM</td>
<td>Fondazione Eni Enrico Mattei – Eni Enrico Mattei Foundation</td>
</tr>
<tr>
<td>GNDCI</td>
<td>Gruppo Nazionale per la Difesa dalle Catastrofi Idrogeologiche – National Groups for the Defence from Hydrogeological Catastrophes</td>
</tr>
<tr>
<td>HVAC</td>
<td>Heating Ventilating and Air Conditioning</td>
</tr>
<tr>
<td>IDEAS</td>
<td>Centro Interdipartimentale per l’Analisi delle Interazioni Dinamiche tra Economia, Ambiente e Società – Interdepartmental Center for Dynamic Interactions between Economy, Environment and Society</td>
</tr>
<tr>
<td>IEFE</td>
<td>Istituto di Economia e Politica dell’Energia e dell’Ambiente – Institute of Economics and Energy and Environment Policies</td>
</tr>
<tr>
<td>IMET</td>
<td>Italian Ministry for the Environment and Territory</td>
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<tr>
<td>Acronym</td>
<td>Description</td>
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<td>---------</td>
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<tr>
<td>INGV</td>
<td>Istituto Nazionale di Geofisica e Vulcanologia – National Institute of Geophysics and Volcanology</td>
</tr>
<tr>
<td>IPSC</td>
<td>Istituto per la Protezione e la Sicurezza del Cittadino – Institute for the Protection and Security of Citizens</td>
</tr>
<tr>
<td>IRIS</td>
<td>Istituto di Ricerca Interdisciplinare sulla Sostenibilità – Interdisciplinary Research Institute on Sustainability</td>
</tr>
<tr>
<td>IUAV</td>
<td>Istituto Universitario di Architettura Venezia – Architecture University of Venice</td>
</tr>
<tr>
<td>IVPC</td>
<td>Italian Vento Power Corporation</td>
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<tr>
<td>JRC</td>
<td>EU Commission Joint Research Centre</td>
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<td>MOST</td>
<td>Ministry of Science and Technology of China</td>
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<td>NDRC</td>
<td>China National Development &amp; Reform Commission</td>
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<td>SD</td>
<td>Sustainable Development</td>
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<td>SEPA</td>
<td>State Environmental Protection Administration of China</td>
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<td>SEPB</td>
<td>Shanghai Municipal Environmental Protection Bureau</td>
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<td>SICP</td>
<td>Sino-Italian Cooperation Programme for Environmental Protection</td>
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<td>SICP PMO</td>
<td>Sino-Italian Cooperation Programme Project Management Office</td>
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<tr>
<td>SMAT</td>
<td>Società Metropolitana Acque Torino – Municipal Water Company of Turin</td>
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<tr>
<td>STA</td>
<td>Società Trasporti Automobilistici – Services for the mobility of Rome</td>
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<tr>
<td>TEN</td>
<td>Thematic Environmental Networks</td>
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<tr>
<td>TOROC</td>
<td>Torino Organising Committee</td>
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<td>UNDP</td>
<td>United Nations Development Programme</td>
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<td>UNEP</td>
<td>United Nations Environmental Programme</td>
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<td>UNIDO</td>
<td>United Nations Industrial Development Organisation</td>
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<td>VESTA</td>
<td>Venezia Servizi Territoriali Ambientali – Venice Environmental Territorial Services</td>
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<td>VIU</td>
<td>Venice International University</td>
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<td>WB</td>
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