



**INTERNATIONAL SCIENTIFIC THEMATIC NETWORK
FOR ENVIRONMENTAL TECHNOLOGIES**



- Established in **2002** as an initiative of the Institute for Ecology of Industrial Areas in Katowice and 66 other Polish RTD units and academia including 23 Centres of Excellence.
- At present - **70** member organisations including **13 foreign** units.
- Project co-financed by the Polish Ministry of Science and Higher Education



Consolidation of Polish and foreign RTD potential to integrate applied research with the needs of industry and to facilitate development of innovative environmental technologies.



ENVITECH-Net GOALS

- Support international co-operation and integration of RTD units in the field of environmental technologies
- Promote innovative achievements in the field of environmental technologies
- Establish a forum for identification of issues and opportunities , exchange of information and dissemination of the results of RTD projects concerning innovative environmental technologies.



ENVITECH-Net activities facilitate implementation of the Environmental Technologies Action Plan (ETAP) and promotion of eco-innovation

The Network was the co-organizer of the First European Forum on Eco-Innovation held in Poznan, Poland on 21-22 Nov 2006.



21-22 November 2006, POLEKO2006, Poznań, Poland
European Forum on Eco-Innovation
Financing Eco-Innovation





SCIENTIFIC FOCUS of ENVITECH-Net

- The scientific focus of ENVITECH-Net corresponds to the most promising trends in environmental technologies development identified for the needs of the Environmental Technologies Action Plan





RESEARCH FIELD 1: Water resources protection and management

- Improved water metering and leak detection systems
- Improved water and sewage decentralised distribution systems
- Technologies for sustainable water recycling/reuse from wastewater („grey-water” and „black water”)
- Measurement methods – techniques for remote sensing, standards for measurement methods and data collection, multi-sensors
- Water resources shaping and flood control, in that: development of mathematical models for flood prediction/prevention and impact mitigation
- Innovative environmental protection technologies: membrane-based technologies, advanced oxidation technologies, separation and recycling technologies, biotechnologies – production of tailor-made biofilms, innovative technologies based on advanced biological nutrient removal processes, technologies based on anaerobic processes, sewage sludge technologies



RESEARCH FIELD 2: Global climate change prevention

- Technologies for hydrogen production from fossils, renewable and other sources
- Technologies for transport, storage and end-use of hydrogen (fuel cell systems) for clean decentralized energy supply
- Greenhouse gas-free energy technologies
- Technologies for sequestration of carbon dioxide from fossil fuels
- Technologies based on renewable energy sources, such as: wind, biomass, photovoltaic and photothermal cells, wave and ocean energy



RESEARCH FIELD 3: Sustainable production and consumption

- Clean technologies based on effective use of resources
- Resource-based technologies
- Nano-science and nanotechnology; clean processes, products and materials accompanied by an emphasis on life cycle analysis
- Technologies for the treatment of waste, including hazardous waste, recycling technologies, etc.



RESEARCH FIELD 4: Soil protection

- Biotechnology and research on life science technologies that improve our understanding of soil microbiology and microbial diversity
- Bio-remediation technologies for contaminated soil
- Technologies that fight land degradation desertification and soil contamination and help protect vulnerable ecosystems
- Technologies for soil monitoring and development of soil erosion and degradation biomarkers



RESEARCH FIELD 5: Cross-cutting research technologies

- Information Communication Technologies for better control of industrial processes (such as equipment, probes, control systems), that improve collection, storage, processing, standardization and interpretation of data
- Management and monitoring systems
- Telematic technologies
- E-Business, including commerce, industry and services
- Biotechnologies in environmental protection and engineering
- Global Navigation Satellite Systems, Global Monitoring for Environment and Security, (programmes for radio navigation by satellite)
- Socio-economic research and policy analysis tools: e.g. tools to internalise environmental costs into pricing and accounting systems



- Support in partner- matching among ENVITECH-Net members for joint projects
- Co-operation with technology platforms: national and European,
- System of internal co-operation grants for members
- Interactive database of members and their potential
- ENVITECH-Net internet service
- Joint organisation of conferences, seminars and brokering events under an initiative „*Bank of environmental technology opportunities*”
- ENVITECH-Net peer reviewed publication „*Environmental Technologies in Reserach and Practice*”



MORE INFO AND DOCUMENTS

ENVITECH-Net Co-ordination Office

Institute for Ecology of Industrial Areas
6 Kossutha Str.

40-844 Katowice, Poland

phone +48 (32) 254 60 31 ext. 269 or 243

fax + 48 (32) 254 17 17

office@envitech-net.org

<http://www.envitech-net.org>

You are welcome to join us