



Partnerstwo  
Environmental Partnership Foundation

CLEAN BUSINESS  
1998-2004



**The goal of the Clean Business Program is to improve competitiveness of small and medium-sized enterprises (SMEs) by demonstrating that dealing with environmental considerations in day-to-day operations is a key contributing factor to business development, as well as to environmental improvement and social revitalization.**

**Clean Business:**

- Supports SMEs in taking action for the environment in their INTERNAL business operations, especially those that lead to cost-savings and increase their competitiveness on local and international markets.
- Motivates companies to undertake action on the environment EXTERNALLY to business operations, especially by improving the physical environment in the immediate surroundings of a factory, in employees' residential areas or in communities which are important markets for the company's products or services.
- Provides companies with opportunities and mechanisms for longer-term action for the environment and social revitalisation of LOCAL COMMUNITIES in partnership with national and local governmental agencies, NGOs and other companies.

**Core Funder:**



**Key Partner:**



**Other core Funders:**

Charles Stewart Mott Foundation  
City of Cracow  
City of Bielsko-Biala  
DANSEE  
EU Phare  
(Partnership, Sci-Tech II, Access, Civil Society Development 2001, Business for Europe)  
German Marshal Fund of the US  
Mielec Powiat  
Polish Agency for Entrepreneurship Development (PARP)  
Ricoh Poland  
Rockefeller Brothers Fund  
Sendzimir Foundation  
Stefan Batory Foundation  
UK Know How Fund  
UK Department of International Development (DFID)  
US AID

and  
250 Clean Business member companies

## Introducing Clean Business

*Back in 1998, our motivation for starting up the Clean Business Program ('Czysty Biznes' in Polish) was a desire to encourage Poland's 2.3 million small and medium companies (SMEs) to make environmental action and community engagement part of their day-to-day business operations. We set out to demonstrate to companies how improving environmental performance and getting involved in the community helps in business development and does not necessarily mean additional costs and workload. Looking back over the past six years, I strongly believe that we have gone a long way towards achieving our aspiration.*

*We teamed up with BP and Groundwork in the UK to pool resources and competencies in the design and delivery of Clean Business. Working with BP has enabled us to draw on the resources, know-how and expertise of a large multinational highly committed to environmental action. Working with Groundwork UK, a federation of trusts committed to engaging business and community groups in practical action for the environment, has helped us build up a capability for designing and funding partnership-oriented sustainable development projects.*

*Thanks to Clean Business, we have found that in many local situations, business leaders are willing to be more actively involved in environmental action that brings benefits to the wider community. Many Clean Business companies have become actively involved in supporting our efforts to strengthen civic groups and build partnerships for sustainable development based on joint action of schools, companies, local and national government agencies, universities, environmental and other groups at the grassroots or local level.*

*Now in its sixth year, Clean Business has become an integral part of the programming of the Polish Environmental Partnership Foundation - as have our partnerships with BP and Groundwork. Clean Business has given us the confidence and know-how to establish partnerships with other large companies, such as Ricoh, Toyota, Procter & Gamble.*

*There is little doubt that Clean Business has enabled us to deliver more effectively on our mission "to promote, support and help implement environmental protection activities undertaken by not-for-profit organizations and local communities, where these contribute to the development of democracy in Poland".*



Rafal Serafin  
Director

Polish Environmental Partnership Foundation

## Supporting Clean Business

*BP is one of the top producers and distributors of fuel in the world. Our company has an unshakeable commitment to integrity, honest dealing, treating everyone with respect and dignity, striving for mutual advantage and contributing to human progress. Our products and services contribute to a better quality of life. They provide freedom to move, heat, to see. We believe this freedom is inseparable from the responsibility to produce and consume energy in ways that respect both human dignity and the natural environment.*

*Our long term commitment to the Clean Business Programme shows how we are striving to deliver on our global commitments to sustainable development in Poland, where the Programme has become an integral part of our social investment strategy.*

*Working on Clean Business with the Polish Environmental Partnership Foundation has enabled BP to play an active role in breaking down the stereotype that improving environmental performance is an extra or unnecessary additional cost, which is common to many in government and business. Through Clean Business, we have not only succeeded in demonstrating that improved environmental performance translates into improved business performance, but also shown that commitment to environmental improvement is within reach of all companies - large and small.*

*We are pleased that BP's long-term commitment and contributions to Clean Business are being increasingly recognized through awards, such as Poland's Benefactor of the Year Award. But we are even more pleased by the fact that Clean Business is being recognized as making a real difference to the development of Polish small and medium-sized companies.*

Sincerely,



Wojciech Heydel  
Country President BP Poland

# THE CLEAN BUSINESS PROGRAMME

– responding to the environmental needs of Poland's small and medium-sized enterprises (SMEs)

## WHAT IS CLEAN BUSINESS?

Clean Business provides small and medium-sized companies with the means and the opportunity:

- to improve their own environmental performance by achieving cost-savings and increasing their competitiveness through improvements in day-to-day business operations;
- to undertake joint action with other companies to bring about environmental improvements in a specific geographic area, such as the surroundings of a factory or in communities, which are important for the company's products or services;
- to get involved with partners from the public and civil society sectors in longer term action for the environment and social revitalization of local communities.

## HOW DID CLEAN BUSINESS GET STARTED?

- Back in 1998, the Polish Environmental Partnership Foundation (PEPF), Groundwork UK and BP teamed up to design Clean Business as a self-help scheme for Polish SMEs based on the successful UK Business Environment Association project.
- Now in its sixth year, the Clean Business Programme has helped mobilize hundreds of companies to improve their own environmental performance and also become involved in longer-term community improvement projects with local governments, schools and civic groups.
- Thanks to long-term support from BP and other funders, Clean Business has helped turn the Environmental Partnership Foundation into one of Poland's leading environmental organizations. In turn, Clean Business has become a cornerstone of BP Poland's corporate social responsibility programming and has encouraged other corporates to develop ambitious partnerships with civic groups.

## CLEAN BUSINESS ACHIEVEMENTS

- Clean Business is a highly dynamic and evolving programme, which is constantly being adapted to the needs of Poland's small and medium-sized enterprises. New opportunities are resulting from economic and institutional reforms, which are now driven by Poland's desire to take full advantage of European Union membership.
- Clean Business is delivered through a network of Clean Business Clubs. Each Club has its own coordinator and serves to bring together companies from a specific geographical area. There are 15 Clean Business Clubs in operation.
- Since 1998, the Clean Business Programme has engaged more than 400 companies – currently there are 230 active members located in over 80 towns and cities, mainly in southern parts of Poland.
- Each Club provides member companies access to customized advisory services, information and other technical assistance needed to improve their specific environmental situation. As of May 2004, Clean Business specialists have completed over 200 environmental reviews in companies. Each of these reviews has provided a basis for developing detailed action plans for improving environmental performance.
- An Environmental Information Centre operated as part of Clean Business has answered over 1000 helplines responding to specific questions or problems faced by Clean Business companies. In addition, several hundred specialist consultations and over 160 seminars, workshops and conferences. Each event provided opportunities for interaction and learning from the experience of others.
- EU grants have provided the opportunity to develop thematic programmes targeting specific types of companies within the framework of Clean Business. In 2002, a Green Business Park initiative was launched in 10 locations. The objective of the initiative is to



Clean Business Award winners  
– Bielsko-Biala 2002

work with companies and prospective investors to improve the attractiveness of industrial areas as a way of stimulating economic, environmental and social revitalization.

In 2004, another EU grant helped start a Clean Tourism initiative aimed at helping hotels and restaurants improve their environmental performance by learning from each other and motivating staff to get involved in practical action. Cooperation with Ricoh Poland has helped apply the Clean Business approach to offices through the Green Office scheme.

- Each year since 1999, an **Annual Clean Business Meeting** has brought together member companies to review progress, plan for the future and celebrate successes. **Clean Business Awards** were inaugurated to recognize achievement of Clean Business companies in six categories:

- water, energy or waste management;
- promoting environmental care and sharing benefits with the community;
- environmental technology transfer and innovation;
- landscape visual improvements;
- green business parks;
- environmental management systems.

- In 2004, DG Environment recognized the contributions of Clean Business and invited the Environmental Partnership to be the Polish organizer of the EU Awards for the Environment.

Clean Business companies have generated concrete financial savings from improved environmental performance (ranging from 100 to 60,000 EUR per year).

- An important effect of Clean Business activities is not just higher awareness of environmental requirements concerning compa-

nies, but assistance to take advantage of new opportunities for businesses arising from EU accession. For example, in 2002 and 2003 Clean Business companies were awarded grants under the Phare 2000/2001 programmes, amounting to over 196,000 EUR.

*“Cost savings from the pilot installation for heat recovery from emissions from the bakery’s oven, which helps me heat water and the bakery run into several thousand Polish zlotys annually. But what is more important is that the cost-saving solution tested in my bakery is already being replicated by 18 other bakeries in Tarnow. All this adds up to using less coal for heating and limiting air emissions in one part of the city. The reduced environmental impact is noticeable. The project also shows how two small companies can work together and develop new solutions”*

**Jan Ozga** - owner of a bakery in Tarnow, one of the first member companies of the Clean Business Club in Tarnow, a member of the PEPF Board of Trustees and the leader of the Local Partnership for Sustainable Development in Tarnow. His project won the Clean Business



*Awards competition 2001 in Category 1: “Water, energy or waste management”.*

## THE CLEAN BUSINESS MODEL

- The most important challenge that the Environmental Partnership had to face in developing Clean Business in Poland focused on finding effective ways of recruiting Polish SMEs to a self-help programme and organizing a cost-effective system of providing customized information and advice related to environmental performance improvement of specific companies.
- Organizing Clean Business in Poland was based on adaptation of a UK model developed by Groundwork called the Business Environmental Association initiative.
- UK experience and expertise was adapted to Polish needs and circumstances through a series of training sessions, study visits and hands-on learning in both Poland and UK, which was made possible through grant aid from the UK Government and

Jan Ozga, owner of a bakery in Tarnow, one of the first companies to join up

from the European Union Phare programme. As Clean Business staff was trained, the first Clean Business Clubs were launched and an Environmental Information Centre was established.

- With the first companies recruited in Poland to the scheme in 1998, the next step was to test and improve the advisory services to be delivered through Clean Business in close cooperation with Clean Business member companies and BP as the key corporate partner with expertise and commitment to including environmental performance in all aspects of business operations. As a result, Clean Business delivery procedures were developed and codified in a Quality Management Manual, which provides the basis for quality control and continuous improvement as Clean Business develops into a national programme.
- A system continuous training for Clean Business coordinators is now in place - Clean Business Clubs can be run only by coordinators accredited by the Environmental Partnership, who have passed a special exam. An accreditation system is necessary, especially where a Clean Business Club is not operated by the Environmental Partnership (as has been the case to date), but by a local partner organisation (as is now increasingly the case). The Clean Business name and logo have been registered by the National Patent Office.

- Clean Business advisory services services are constantly being reviewed, updated and otherwise developed in order to respond to the environmental needs of participating companies. A special internet based information services system called „Infostat” has been developed specifically for Clean Business and special interest projects have also been developed to respond to the needs of sub-groups within Clean Business. Examples include: Green Business Parks, Clean Tourism and Green Office.

*“Small and medium-sized companies cannot afford employing highly qualified specialists for running environmental management systems. Therefore assistance with environmental problem solving accessible to SMEs through active involvement in Clean Business Clubs brings real benefits to companies. The Club provides SMEs with a platform for experience exchange and access to up-to-date information on environmental regulations and modern technology.”*

**Marek Pawlik,**  
ABM Solid Director, CB Club in Tarnow



← Clean Business staff training

*“Business has helped to change these attitudes. Hundreds of practical examples from Clean Business companies show that improved environmental performance means improved business performance.... Clean Business has distinguished BP among foreign investors active in Poland as a company that is extending its commitment to environmental improvement to the wider community in a practical way.”*

**Wojciech Heydel,** President, BP Poland

## LINKING THE LOCAL TO THE NATIONAL AND INTERNATIONAL

- The Clean Business Programme has become an important partner for dozens of local authorities - especially in relation to specific thematic projects or initiatives that bring tangible regeneration benefits to the local community. A prime example is the Green Business Parks initiative, which has taken root in Tarnów, Zakopane, Katowice, Bielsko-Biała and Knurów.
- Clean Business is also making inroads at the regional or voivodeship government level. Representatives of regional authorities now routinely participate in activities of individual Clean Business Clubs and are actively involved in the work of the Clean Business Awards Committee, which identifies Clean Business award winners each year.
- Clean Business has also provided an infrastructure for promoting and delivering several regional government initiatives, such as conferences addressed to SMEs, the Małopolska Quality Prize and other special events linked to environmental and quality management systems.

- The Clean Business Clubs network in Małopolska has been endorsed and included in the Małopolska Government operational programme for the years 2004 - 2006 and is set to qualify for grant-aid from EU structural funds when these become available on Poland's entry into the European Union in May, 2004.
- The Annual Clean Business Meetings and Awards have helped raise the profile of Clean Business at the national level. Links have been established with the Ministry of Environment, Ministry of Economy, Labour and Social Policy, and also with The European Integration Office, as well as with national business support organisations, most notably the Polish Agency for Enterprise Development (PARP).
- In 2002, Clean Business was certified by the National Services System for SME support organized by the Polish Agency for Enterprise Development and is now built into the national government system of SME support. The National Services System (KSU) is a network of more than 140 organisations and institutions providing services for SMEs in Poland. Clean Business is the focus for environmental performance expertise in this network, which will grow in importance as Poland gains more direct access to EU funds and programming.
- Participation in the National Services System enables also Clean Business member companies to access public sector programmes, to prepare for upcoming opportunities, and to communicate needs and opportunities, so that these are taken into consideration in the design of new business support programmes.

*“The Environmental Partnership helped prepare the Gorlice Special Economic Zone plan, based on the concept of Green Business Parks. In our negotiations with potential investors, as County authorities we present potential investors also with the Clean Business Programme and the business opportunities arising from it as an important value-added. Most of investors see Clean Business as an important additional element, which makes our region more attractive. We can say that Clean Business has become an important element the economic landscape in Gorlice.”*

**Witold Kochan** - Head of Gorlice County

*“Presently, when Poland is preparing for the EU integration (...) it is very important for Polish SMEs to implement improvements to their environmental performance in their business operations. Annual Clean Business Meetings provide companies with the opportunity to exchange experience and to meet one another, which promotes and facilitates implementation of modern solutions developed and tested in Poland and abroad. This will help improve the state of environment in Poland.”*

**Stanisław Zelichowski**  
Minister of Environment (1999-2002)

## FINANCE

- At the beginning of the programme in 1998, 80% of the Clean Business budget was provided by BP. The remaining 20% of funds were secured from the UK Know How Fund.
- Additional funds from the UK Department for International Development (DFID) in 1999 enabled stronger connections with

Groundwork in the UK and development of additional funding applications.

- From the very beginning, considerable emphasis was placed on using BP funds to leverage funds from private foundations, public sector, the EU and other corporates. Additional funds secured from EU Phare Partnership Programme were crucial for further development in 1999-2000. Early successes with EU funding helped leverage additional funding from local and regional government, as well as private donors. As Clean Business services have grown in sophistication, membership fees have also been increased and contribute significantly to the operational budgets of individual Clean Business Clubs.
- In 2002, the Environmental Partnership consolidated all its programming into a single framework based on building a national network of Local Partnerships for Sustainable Development - coalitions of leaders from the business, government and civil society sectors committed to working jointly to implement practical action projects and initiatives that make a difference to a specific geographic area. Clean Business companies are very much leaders in this process of establishing Local Partnerships for Sustainable Development.



→ Representative of Clean Business receives the certificate of the National Services System (KSU)

cohesion funds to support further development and scaling up of Clean Business.

- In 2003, the Clean Business programme budget managed by the Environmental Partnership amounted to 600,000 EUR with less than half coming from BP. According to estimates, funds invested by the Environmental Partnership helped Clean Business Clubs generate at least an additional 600,000 EUR for member companies as a direct result of technical assistance provided through the scheme.

*“BP funding provides a very important, stabilising element for our budget, allowing us to mobilise funds from other sources. But it is important to note that BP involvement in the Clean Business Programme is not restricted to money; BP has been actively involved in shaping programme delivery, especially in advising on environmental performance issues. BP’s credibility in the market place and business knowledge has made the Environmental Partnership more credible in the business world. That’s the real value of partnering with BP”*

**Rafał Serafin**  
- Environmental Partnership Director

## LOCAL LEADERSHIP

- Representatives of Clean Business companies have become real leaders in many local communities. They have helped start up local voluntary groups and partnership initiatives. For example, Clean Business companies in Gorlice, Bielsko-Biała, Kraków and Nowa Dęba are driving forward the Greenways programme by organizing tourist routes along the Krakow - Vienna Greenway, the Amber Trail and the Dłubnia River Greenway.
- Clean Business companies have become involved with the Schools for Sustainable Development scheme, especially in Nowa Dęba, Ostrowiec, Ustroń and Zakopane. Local business leaders play an active role in designing, promoting and implementing sustainable development projects at the local level in Gorlice, Tarnów, Bielsko-Biała, and Nowa Huta and the ‘Necklace of the North’ local heritage product initiative would have been impossible with the active involvement, enthusiasm and support of Clean Business Club members.

- Several Clean Business companies have become recognized leaders at the regional and national levels due to their pioneering efforts in improving their environmental performance. For example, the St. John's Hospital in Krakow was the first hospital in Poland to implement and certify an integrated environmental and quality management system to ISO9001/14001 standards. Other hospitals have followed.
- Mobruk from the village of Korzenna, a hazardous waste utilisation company, TE-SKO, Zakopane's municipal waste management company, and ABM Solid from Tarnow were the first small and medium-sized companies to implement ISO9001/14001 integrated management systems. Several hundred companies across Poland have now followed their example, demonstrating that implementing formal environmental management systems is not just reserved for large corporations, but beneficial also to small and medium-sized companies.

*"Until recently, hospitals have not been aware of the negative environmental impacts of their activities... The implementation of the*

*standards ISO 9001 and 14001 provides an opportunity to review and improve waste management, energy and water consumption. A very important element is also the fact, that the environmental awareness of the employees increases, and a better management improves the competitiveness of the company. At the same time, it is important for us that the hospital is perceived as an institution taking care of its immediate surroundings and the general environment in Krakow. "*

**dr. Marek Krobicki**  
- St John's Hospital Director,  
CB Club in Krakow



← St. John's Hospital in Krakow  
– the first hospital in Poland  
to gain ISO 9001 and ISO14001  
certification

## CLEAN BUSINESS OBJECTIVES FOR 2004-2006

- The Clean Business strategy for the years 2004-2006 has been developed in close consultation with member companies, which involved surveys and workshops, as well as informal consultations. Based on the experience to date and the operational capability now in place, the aspiration is to achieve the following:
  - Demonstrate that improving environmental performance is a business development issue for SMEs – and so help create a favourable regulatory and tax environment;
  - Establish Clean Business as Poland's most effective program for improving SME environmental performance with national coverage – and for Clean Business to be recognized as such at the national and international (EU) level;
  - Ensure that Clean Business continues to respond to the (changing) needs and circumstances of Poland's SME sector – i. e. the Programme must remain business driven and complement (and not replace) public sector SME support programmes;
- Develop a mechanism for ensuring Clean Business self-financing and quality control;
- Assist in establishing Clean Business-type programmes in other countries.
- Build Clean Business into BP Poland operations, especially with the BP retail network through a dedicated BP retail Clean Business Club.
- Organize the European Award for Environment in Poland.

To achieve Clean Business objectives in 2004-6, the Environmental Partnership has teamed up with the British-Polish Chamber of Commerce in Krakow to add new life and direction to the Regional Business Initiative initiated in 2003 with support of BP and other large foreign investors active in south Poland, such as TESCO, Pliva Krakow, Motorola, Phillip Morris.

# CLEAN BUSINESS AWARDS

## Objectives

Each year the Polish Environmental Partnership Foundation organizes Clean Business Awards for Clean Business members. The objective is to recognize companies which undertake practical action to improve their environmental performance, and so their economic performance and engagement in the wider community.

Many Clean Business Award winners have given companies confidence to go on to participate in regional, national and international competitions, such as the Malopolska Quality Prize, Leader of Ecology, and Environmentally-Friendly Firm.

As of 2004, the Clean Business Awards will be awarded in eight categories:

### I. Water, Energy and Waste Management

The award is given to a company which has introduced an effective way of energy, water or waste management that result in cost savings and reduced environmental impact.

### II. Promoting Environmental Care and Sharing Benefits with Local Community

The award is given to an ecological project implemented by a company which also benefits local community.

### III. Environmental Technology Transfer and Innovation

The award is given for introducing innovative solutions which benefit environment. It is important that the innovation should be transferable to other companies.

### IV. „Brightsite” – Visual Improvement

The award is given to a company with the most attractive surroundings.

### V. Green Business Parks

The award is given to a company actively involved in industrial area regeneration through implementation of Green Business Park concept.

### VI. Environment Management Systems

The award is given for implementation of an environment management system.

In 2004 two new categories will be added:

### VII. Green Office

The award will be given to an institution (company, office, non-governmental organisation) for implementation of a series of activities reducing environmental impacts of office operation.

### VIII. Clean Tourism

The award will be given to a hotel or a restaurant for achievements in energy, water or waste management and implementing the idea of sustainable tourism.

sent to the Clean Business Awards Committee for final selection.

The Committee consists of representatives of regional authorities where the Program operates, national business support organisations, environmental agencies, Clean Business patron companies the winners from the previous year. The Committee chooses one winner for each category.

The most important criteria for project verification include innovative character of environmental solutions implemented by a company, potential for implementation in other companies, environmental and economic effects.

The results of the competition are officially presented and celebrated during the Annual Clean Business Clubs Meeting and Awards Ceremony held every year in October.

## Award winners

In the first year of Clean Business, awards recognized the most active member companies. In the second year, a more sophisticated scheme was introduced with awards granted in several different categories. To date, four editions of the Clean Business Awards competition have been organized.

In total, 170 projects have been entered the competition, of which 72 were nominated for Awards and 24 were awarded.

## Award Rules

The Clean Business members submit their projects to the Polish Environmental Partnership Foundation and undergo a formal verification. Then Clean Business specialists select a maximum 3 nominees in each category. The nominated projects are then pre-

The winners receive certificates and special glass pyramids



# CLEAN BUSINESS AWARD WINNERS 2000

## CATEGORY I: WATER, ENERGY AND WASTE MANAGEMENT

### 'WAWEL' S.A. CONFECTIONERY, Clean Business Club in Kraków

Type of business activity: food processing

*Project title: Modernization of the factory and education of employees related to changes in production technology and environmental improvement.*

Wawel introduced energy, water and waste management into its production process to generate both environmental and economic benefits. These included introduction of closed water circulation (generating annual savings of 80,540 PLN or approx. 17,000 EUR), noise level reduction, recycling condensate heat from heating water for production and individual

use (generating annual savings of: 30,378 PLN or 7,000 EUR), upgrading sewage treatment and reducing thermal discharge, closure of an ammonia engine room (generating annual savings of 202,032 PLN or approx. 50,000 EUR; reducing the threat of chemical contamination and potential impact on human health, modernization of gas heating system (generating an-

nual savings of 95,555 PLN or 20,000 EUR), closure of a coal-fired boiler house responsible (generating annual savings of 172,008 PLN or approx. 43,000 EUR). All the technological and process changes were associated with environmental education and awareness-raising programmes for employees and local communities.

## CATEGORY II: PROMOTING ENVIRONMENTAL CARE AND SHARING BENEFITS WITH LOCAL COMMUNITY

### BAREFOOTED CARMELITES MONASTERY, Clean Business Club in Bielsko-Biala

*Project title: Wind turbine, ecological education partnership with primary school in Zawoja - Przyslop.*

Located in a remote part of the Beskidy Mountains, the Barefooted Carmelites Monastery is developing an environmentally friendly tourist center together with the local village community. The focus is on moving to renewable energy in the Monastery. A wind turbine, solar panels and a heat pump have all been successfully installed, making the monastery a symbol of practical action for

the environment. Energy audits have been completed in monastery buildings as part of the process of replacing coal boilers with more environmentally friendly heating systems. Many of the solutions developed in the Monastery are being replicated in the surrounding village by local people thanks to the Zawoja Sustainable Development Association.



← Wind turbine in Zawoja Przyslop

## CATEGORY III: ENVIRONMENTAL TECHNOLOGY TRANSFER AND INNOVATION

### ABM SOLID LTD, Clean Business Club in Tarnów.

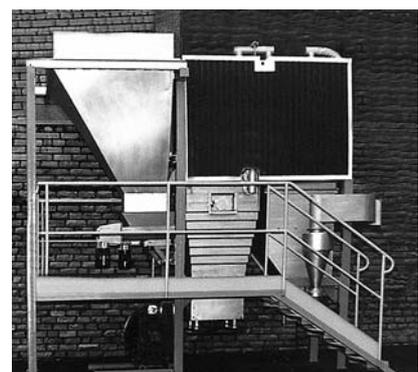
Type of business activity: construction, environmental engineering.

*Project title: Using small heating boilers for fluidized combustion of sewage sludge.*

Innovation relates to applying fluidized combustion technology at a smaller scale for the purposes of waste utilization and energy recovery. The calorific value of sewage sludge is comparable with that of low quality solid fuel such as coal-dust. Fluid beds allow very efficient combustion of sludge, leaving only 5% of the original material for disposal.

The project was developed by ABM SOLID with support from the Krakow Technical University and the and the Warsaw-based European Renewable Energy Center. ABM Solid

has been successful in securing funding under the EU's 5<sup>th</sup> Framework Programme to undertake further research and testing. The focus on environmental improvement has prompted the company to implement an integrated environmental and quality management system to ISO 9001 and 14001 standards.



→ ABM fluidized combustion technology

## CATEGORY IV: BRIGHTSITE – VISUAL IMPROVEMENT

### AGENCY FOR INDUSTRY DEVELOPMENT, Clean Business Club in Mielec

*Project title: Brightsite in the Agency for Industry Development in Mielec*

The Agency is concerned with assisting in the restructuring of state owned industry and promoting new initiatives in line with market reforms. Over a period of five years, the Agency successfully modernized old infrastructure, provided new facilities for investors, revitalized neglected green areas and built a modern building on a derelict post industrial site in Mielec. In revitalizing the 627 hectare site, the Agency established a landscaping and environmental management programme to increase attractiveness and prestige of the site.



Environmental landscaping in Mielec

## CATEGORY V: GREEN BUSINESS PARKS

### MUNICIPAL AND POWIAT OFFICES IN GORLICE, GORLICE 2012 FORUM ASSOCIATION, Clean Business Club in Gorlice.

*Project title: The Gorlice Ecological Economic Zone as a tool for local development.*

The motivation for establishing a Green Business Park in Gorlice was to attract inward investors who will generate local employment in an area hit suffering from industrial downsizing. The Gorlice Ecologi-

cal Economic Zone is being established as an industrial park, which integrates environmental concerns such as opportunities for companies to undertake joint action to achieve environmental cost-savings thro-

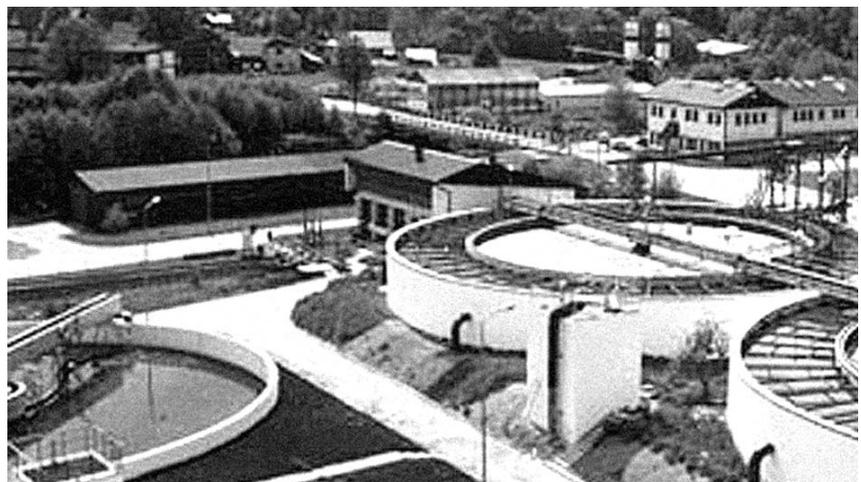
ugh waste management and landscaping. The Gorlice Zone is expected to generate 3000 new workjobs and has been made a priority by the Malopolska Regional Government.

## CATEGORY VI: ENVIRONMENT MANAGEMENT SYSTEMS

### SEWIK WATERWORKS AND SEWAGE TREATMENT PLANT LTD Clean Business Club in Zakopane

*Project title: Environment management system ISO 14001 in SEWIK Waterworks and Sewage Treatment Plant Ltd.*

In June 2000, the SEWIK Company certified its environment management system to the ISO 14001 standard, covering all its operational activities related to water supply, sewage treatment and disposal, sewage sludge management. The process of developing and implementing the system was started in 1998 with an initial environmental audit.



Sewage treatment plant

# CLEAN BUSINESS AWARD WINNERS 2001

## CATEGORY I: WATER, ENERGY AND WASTE MANAGEMENT

### JAN OŹGA BAKERY AND "TARNAWA" FLUE CONSTRUCTION, Clean Business Club in Tarnów

*Project title: Recovering waste heat from the Jan Oźga Bakery to provide hot water and central heating using a heat exchanger installation specially developed by TARNAWA Flue Construction*

The initial environmental review of the Jan Oźga Bakery identified ineffective energy management as an opportunity for both cost savings and environmental improvement. Specialists from Groundwork Blackburn in the UK proposed installation of heat exchangers, which would provide considerable benefits. Unfortunately, these turned out to be beyond the financial means of the bakery, but mobilized the owner to search for another solution - partial heat recovery from the flue emissions of the bakery oven. Another member of the Tarnów Clean Business Club, the TARNAWA Flue Construction company, agreed to develop

a prototype heat exchanger customized to the needs of the bakery. The heat exchanger contains a double pipe arrangement, which extracts some of the heat from emissions to heat water flowing through the pipe. In addition, an extractor fan sends dry and hot air from above the baker oven to the finished products storage area. Thanks to introducing these simple solutions, direct monthly cost savings are approx. 1500 PLN (approx. US\$ 375). Energy savings on central heating run at approx. 1000 PLN/month (approx. US\$ 250), which means paying only 40% of previous energy bills. Additional cost savings result from so-

lving the problem of excess humidity in the bakery, which impacted on final product quality and required painting of the walls 4-5 times per year. Other benefits include improved safety thanks to dry floors and reduced risks of boiler overheating.

The heat exchanger arrangement installed at the Jan Oźga Bakery has proven cheap, effective and easy to install when compared to the off-the shelf alternatives available on the Polish market-place. As a result, four other Tarnów bakeries have now followed the lead of the Jan Oźga Bakery and opted for a similar solution to their energy management problems.

## CATEGORY II: PROMOTING ENVIRONMENTAL CARE AND SHARING BENEFITS WITH LOCAL COMMUNITY

### SLAG RECYCLING LTD., Clean Business Club in Kraków – Nowa Huta

*Project title: Restoring degraded industrial areas in Nowa Huta*

In its business activities, Slag Recycling has emphasized the need for promoting research on the existing and potential uses of slag wastes from steel production. The company has financed several research projects on the application of slag wastes in road construction, on their environmental impacts and on possible new applications. Independent assessment and monitoring has confirmed that slag wastes materials used for road construction provide an excellent alternative to conventional mined materials and meet all environmental safety standards. The high quality of Slag Recycling products has been recognized by awards and prizes at specialized trade fairs. The company is also active in supporting a wide range of philanthropic causes and has been active in helping schools, childrens' homes, local governments and individuals affected by flood damage, especially in the towns of Raciechowice and Żegocina. Financial and in-kind support (building materials) have been provided to the Monar drug therapy centre and to cultural institutions.



Slag Recycling Ltd. – restoring degraded industrial areas in Nowa Huta

### CATEGORY III: ENVIRONMENTAL TECHNOLOGY TRANSFER AND INNOVATION

#### MARBET-WILL LTD., Clean Business Club in Bielsko-Biala

Type of business activity: waste neutralisation and re-use

**Project title: Research on neutralization and re-use of toxic and hazardous industrial wastes using solidification methods with sulphur polymer SULWIL® and concrete polymer SULTECH®.**

Research on production of sulphur-based binding agents was initiated at Marbet in early 1998. The company was the first in Europe to patent and initiate production of the polymer SULWIL® made from materials based on waste sulphur from natural gas desulphurization installations. In 2000, promising test results of quality of the sulphur polymer prompted a search for industrial applications. The company now offers technical solutions for neutralizing and re-using toxic and hazardous industrial solid wastes using solidification methods with sulphur polymer SULWIL® and concrete polymer SULTECH®. The process transforms wastes into a solid form, which is physically and chemically inactive with minimal environmental impact. The mechanical and physical-chemical characteristics of the solidified material mean that it can be used in road and other construction.



Marbet Will Ltd. – offers technical solutions for neutralizing and re-using toxic and hazardous industrial solid wastes restoring slag wastes from steel production

### CATEGORY IV: „BRIGHTSITE” – VISUAL IMPROVEMENT

#### MAXI SCHROTT, Clean Business Club in Kraków-Nowa Huta

Type of business activity: vehicles recycling

**Project title: Landscaping and visual improvements in a motor vehicle scrap yard**

Maxi Schrott is a scrap yard located in the industrial part of Nowa Huta, which specializes in recycling motor vehicles and selling parts and accessories. The company operates a compactor for vehicle bodies, drying facilities, and a system for disassembly and segregation of reusable parts and wastes. The processing facility is isolated from the surrounding industrial area with full environmental safeguards and provides for a safe and friendly workplace. The company has not only cleaned up its own site of operations, but also improved derelict surrounding areas, which had been long neglected. These activities have included laying tarmac on access roads and parking areas, fencing, pavements for pedestrians, establishing green corridors with grass, flowers and bushes to improve visuals, as well as signage.



“Brightsite” project in Maxi Schrott company in Kraków-Nowa Huta

## CATEGORY V: GREEN BUSINESS PARKS

### CITY OF TARNÓW, Clean Business Club in Tarnów

*Project title: The “Crystal” Green Industrial Park*

Inspired by the Green Business Park idea, the City of Tarnów authorities joined with companies operating in the area bounded by Elektryczna, Piaskowa, Mroźna and Kryształowa Streets to promote the area to inward investors as a Green Industrial Park. As owner of industrial land in the area, the City established a steering committee for developing the “Crystal” Green Industrial Park in June 2001, inviting local companies and community organizations to participate.

The project is a long term one and one of Poland’s first public-private partnerships aimed at making the industrial area attractive to existing companies, as well as to inward investors. The borders of the Park have been delineated and the City is offering land tax relief to potential investors. Local companies and community groups are being consulted in the design and planning process of establishing the Green Industrial Park to create also a climate of public support.



Signage in the Crystal Green Business Park

## CATEGORY VI: ENVIRONMENT MANAGEMENT SYSTEMS

### THE TATRA MUNICIPAL COMPANY “TESKO” LTD., Clean Business Club in Zakopane

*Project title: Extending environmental management systems of the Tatra Municipal Company “TESKO” to include hazardous waste*

TESKO has introduced a system of hazardous waste collection in the Tatra and the Nowy Targ Poviats with the objective of separating hazardous waste from the municipal waste stream. This involves special collection points for household hazardous wastes and on-site collection of hazardous wastes from businesses, health centres and other waste generators. Collection activities are organized by specially trained staff and are integrated into the company’s environmental management system. Specialized temporary storage facilities have been established, including a cold room for medical waste and secure space for toxic wastes. Wastes are transported by a special vehicle purchased with funds from the Danish Environmental Protection Agency (DEPA). The hazardous wastes collected are transferred for disposal to specialized companies. Thanks to TESKO, Zakopane is Poland’s first city to have an integrated system of hazardous waste collection.



Hazardous wastes are transported by a special vehicle – Ekomobil

# CLEAN BUSINESS AWARD WINNERS 2002

## CATEGORY I: WATER, ENERGY AND WASTE MANAGEMENT

### MEAT PROCESSING PLANT „DOBROWOLSCY” Ltd.:

**Project title:** Effluent treatment plant on the company's premises and minimization of emissions and costs of road transport in the Meat Processing „Dobrowolscy” Ltd.

The company built on its premises a modern effluent treatment plant, which considerably reduced the company's impact on environment. Running the treatment plant is much cheaper and more cost effective than disposing of the company's effluent to the Tarnów treatment plant (very high cost of transport on the company's side). The cost of building the treatment plant will pay back after two years. The sludge from the treatment processes is used as a fertilizer (the company is located in a primarily agricultural area).



Effluent treatment plant in the Meat Processing „Dobrowolscy” Ltd.

## CATEGORY II: PROMOTING ENVIRONMENTAL CARE AND SHARING BENEFITS WITH LOCAL COMMUNITY

### MUNICIPAL AND HOUSING COMPANY LTD. IN NOWA DĘBA:

**Project title:** Municipal and Housing Company's initiatives to promote environmental care and share benefits with local community.

A partnership initiative involving Municipal and Housing Company in Nowa Dęba, City and Municipal Office in Nowa Dęba, Association for Children and the Youths „Support” and local schools to protect the natural environment. Undertaken activities involve: willow planting, waste segregation program, special program for utilization of sludge from the biological effluent treatment plant. A special attention should be paid to the effluent treatment plant run by the Municipal and Ho-

using Company from Nowa Dęba - the area around the plant has been developed into a kind of small zoo with little fish ponds, apiary, African ostrich breeding farm, tortoises and a shelter for homeless animals. The area is open to the local community and frequently visited by schools.



Effluent treatment plant in Nowa Dęba

## CATEGORY III: ENVIRONMENTAL TECHNOLOGY TRANSFER AND INNOVATION

### „ELPLAST” PLASTIC PRODUCTION – JÓZEF GAĐKOWSKI:

Type of business activity: plastic processing

**Project title:** Environmental technology transfer and innovation in the „Elplast” company.

The company has developed a production line to make a multilayer plastic (so call homogenous barrier plastic). The novelty of this technology lays in using a double blowing method, as well as adding some mineral substances (chalk) which facilitate the process of biodegradation.

Production cost of the new plastic is much lower than in the case of standard multilayer plastics because of lower cost raw materials and lower energy consumption (up to 40% less energy).



„ELPLAST” Plastic Production Line

## CATEGORY IV: „BRIGHTSITE” – VISUAL IMPROVEMENT

### MEGAWITA S. J.:

Type of business activity: food processing

*Project title: Brightsite project in the Megawita company.*

A very original and visually attractive project of aesthetic improvement of the company's grounds. The author of the idea, design and implementation was the owner of the company. The grounds around the company are open not only to all the employees but also to the local community and a nearby school. The company also initiated the action of cleaning the banks of a nearby river, engaging local schools and residents (organized under the Clean the World action).



Brightsite in Megawita

## CATEGORY V: GREEN BUSINESS PARKS

### MUNICIPAL OFFICE IN WOJNICZ

*Project title: Green Industrial Park in Wojnicz.*

The Green Industrial Park in Wojnicz was established on municipal investment grounds. The idea of establishing a Green Industrial Park in Wojnicz originated from the cooperation between the Municipality of Wojnicz and the Polish Environmental Partnership Foun-

ation. A lot of attention is being paid to the visual improvement of the surroundings and compliance with the natural environment conditions. The Municipality Office has decided that all investors in the Park have to dedicate at least 10% of their grounds to verdure. Com-

panies active on the Park cannot be a burden to the natural environment. The Wojnicz Green Industrial Park's first success is the fact that there are already four new investors there.

## CATEGORY VI: ENVIRONMENT MANAGEMENT SYSTEMS

### „REKIN” COMPANY

Type of business activity: food processing

*Project title: Environmental management system in the „Rekin” company.*

The company implemented the HACCP (Hazard Analysis Critical Control Point) system (big effort and high cost for the company). After two years of the system functioning, certain corrective actions were undertaken. Developed procedures guarantee con-

trol of potential risks, in compliance with Good Manufacturing Practice, Good Hygienic Practice and EU standards. The company's products have been exported to the EU. The company plans to certify the HACCP system in the nearest future.

# CLEAN BUSINESS AWARD WINNERS 2003

## CATEGORY I: WATER, ENERGY AND WASTE MANAGEMENT

### ELECTRIC ENGINE MANUFACTURER "TAMEL" SA., Clean Business Club in Tarnów

Type of business activity: production of electric engines.

*Project title:* **Energy management in TAMEL SA.**

New air-compressors were installed as part of factory modernisation, minimising noise emission and vibrations in production processes. As a result, compressors could be placed inside the production hall, allowing sim-

plification of the air distribution system (shorter pipelines). The heating system in the production hall was also modernized, allowing for recovery of hot air from the compressor cooling system. The new arrange-

ment reduced energy consumption and the nominal power needs by 108 kW. The heat recovery system works automatically. By the second year of operation, the investment had paid for itself.

## CATEGORY II: PROMOTING ENVIRONMENTAL CARE AND SHARING BENEFITS WITH LOCAL COMMUNITY

### MUNICIPAL AND HOUSING COMPANY IN NOWA DĘBA LTD, Clean Business Club in Mielec

Type of business activity: municipal services

*Project title:* **Decisions in Kyoto - implemented in Nowa Dęba.**

The Nowa Dęba Municipality and the Municipal and Housing company in Nowa Dęba worked out a way of reducing costs of heat production for the town. A biomass boiler was installed and its operation was integrated with other company activities, most notably:

- a waste segregation programme was introduced, providing for segregation of organic waste for use in fertiliser production,
- an installation for fertiliser production from organic waste and sludge from the sewage treatment plant was also introduced,
- a willow plantation was organized for biomass production.

In 2002-3, a new biomass municipal boiler house was built, along with an installation for biomass fuel preparation. Heating pipelines were modernised and insulated. The willow plantation of the Municipal and Housing Company currently covers approximately 83 ha. Approx. 400 ha is needed to cover fuel demand of the new boiler and so the company encourages local farmers to start willow cultivation by organising training and supply of willow plantings.



Municipal and Housing Company in Nowa Dęba  
– reducing costs of heat production for the town

## CATEGORY III: ENVIRONMENTAL TECHNOLOGY TRANSFER AND INNOVATION

### MATERIALS RECOVERY COMPANY MADROHUT LTD, Clean Business Club in Kraków Nowa Huta

Type of business activity: recycling and sales of slag from the Sendzimir Steelworks.

*Project title:* **Reuse of ferruginous sludge.**

Each year, the steel rolling process in the Sendzimir Steelworks generates 30 000 tonnes of ferruginous sludge waste contaminated with grease. The sludge is discharged with water from the cooling process to the waste water treatment plant in "Kujawy" for treatment in lagoons. There are now approx. 2 million tonnes of sludge in lagoons. High iron content means the sludge could become a valuable resource for production processes. Madrohut has developed an innovative

method for recovering and reusing waste materials from the sludge. A new technology was developed for mixing the sludge with small fraction slag. The resulting product can be used for cement production. Comprehensive testing has been completed and the technological process has been registered with the National Patent Office.

→  
Mdrohut Ltd. – recovering  
and reusing waste materials from sludge.



## CATEGORY IV: „BRIGHTSITE” – VISUAL IMPROVEMENT

### “ANGELIKA” CONFECTIONERY, Clean Business Club in Debrzno

Type of business activity: confectionery and recreation services.

*Project title:* Brightsite in the “Angelika” Confectionery.

The confectionery is a family business, located on a lake in Debrzno. In 2002, the owner of the confectionery initiated a programme of improving the image and surroundings of his company, which included: renovation of existing buildings, introduction of greenery and landscaping, new business activities including a cafe, pub and barbecue site, installation of benches, a recreational playground for children and a volleyball court, restoration of lakeshore, a footbridge and the beach,

installation of an outdoor dance floor. All these new facilities are open to the public and fully accessible to Debrzno residents. Plans for the future include a camping site, a bed and breakfast and a tennis court. The company works closely with the Debrzno local government and the Association for the Development of Debrzno.

→ Brightsite in the “Angelika” Confectionery



## CATEGORY V: GREEN BUSINESS PARKS

### TATRA MUNICIPAL COMPANY “TESKO” LTD, Clean Business Club in Zakopane.

Type of business activity: collection and transport of solid and liquid waste, summer and winter road maintenance.

*Project title:* The “Szymony” Green Business Park.

The “Szymony” Green Business Park was established in early 2003 in Zakopane with a mission to promote local enterprise in ways, which are friendly to both the natural environment and the local community. Project partners established a steering group to develop and operate the Green Business Park. The activities of the steering group have included: analysis of company needs located in the Park, preparation of development strategy, organizing a design competition among local residents for the Park logo, preparation of signage at the entrance to the Park, coordinating clean-up and landscaping

work. Steering committee participated in Green Business Park training organised by the Polish Environmental Partnership Foundation. 5 companies located in the Park have completed special waste audits and have provided a basis for developing a waste management strategy for the Park as a whole. Project partners include several small and medium-sized companies, local authorities, schools and representatives of local residents.

→ Logo of the “Szymony” Green Business Park.



## CATEGORY VI: ENVIRONMENT MANAGEMENT SYSTEMS

### ROLMLECZ DAIRY IN RADOM, THE MIELEC BRANCH, Clean Business Club in Mielec

Type of business activity: production and sale of dairy products.

*Project title:* How to compete successfully on EU markets.

The Mielec Dairy initiated a process of preparation for meeting HACCP requirements back in March 1999. Procedures have been systematically developed to meet all hygiene and sanitary requirements contained in EU Directives and Polish regulations. The procedures are based on Good Manufacturing Practice and Good Hygiene Practice. The company has organized numerous training and awareness raising activities for employ-

ees and completed several new investments, including construction of a new changing room for employees, renovation of floors and walls, modernisation of technological installations. All these efforts culminated in HACCP certification in the summer 2003.

→ Rolmlecz Dairy in Radom has certified HACCP system



The **Polish Environmental Partnership Foundation (PEPF)** began operations on 1st July 1997 as an independent, non-profit and self-governing foundation based in Cracow. We were established to continue and build on a program called the Environmental Partnership for Central Europe (EPCE) delivered by The German Marshall Fund of the US from 1992-97 in Poland through an office in Wroclaw. We now operate as part of the Environmental Partnership for Central Europe (EPCE) Consortium, which supports grassroots environmental action in Central Europe. Our sister foundations operate in Bulgaria, the Czech Republic, Hungary, Romania and Slovakia.

**The Polish Environmental Partnership Foundation supports sustainable development at the local or grassroots level in Poland through:**

- Building partnerships between business, government and NGOs;
- Delivering good practice, technical assistance and financing (through small grant programmes for civic environmental initiatives);
- Linking together community-based environmental initiatives and projects into national and international networks and programmes;
- Acting as an implementing agency for environmental projects.

Our efforts are intended to ensure grassroots action contributes to building a sustainable society.

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