

# Das ACT CLEAN-Projekt

Projektabschluss im Umweltbundesamt

Dessau, 21. Februar 2012

Dipl.-Ing. Regine Maaß



Part-financed by the European Union  
(European Regional Development Fund)



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# Projektübersicht



ACT CLEAN - Access to Technology and Know-how on Cleaner Production

- Transnationales EU Projekt im Rahmen der Central Europe Programme 2007-2013
- Laufzeit: Dezember 2008 – November 2011(2/ 2012) (3 Jahre)
- Budget: fast € 3 Millionen (Förderquote UBA: 75 %)
- Ziel: Unterstützung von KMU bei der Anwendung/ Einführung von Umweltinnovationen (Technik, Organisation etc.)
- Matchmaking
- Abwicklung der administrativen Pflichten: EPCO (s.Pro)



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Access to  
Technology and  
Know-how  
on  
Cleaner Production  
in Central Europe

[www.act-clean.eu](http://www.act-clean.eu)

2008–2011

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Bundesministerium für Umw

Umweltbundesamt (UBA)



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Access to Technology and Know-how on Cleaner Production  
for Small and Medium Enterprises  
in Central Europe

| Act Clean project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Industry Workshops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <p><b>Background</b></p> <p>EU directives and regulations require enterprises to comply with environmental standards and ensure <b>eco-efficient production processes</b>. As a response, Central European countries have substantially increased their capacity in the field of environmental technologies and management systems in recent years.</p> <p>But: This capacity is not sufficiently applied throughout the area!</p> <ul style="list-style-type: none"> <li>On one side, many SMEs still struggle or even fail to respond to EU requirements, as they don't have <b>access to the existing technological or managerial solutions</b> developed in other parts of the region.</li> <li>On the other side, those SMEs that offer eco-efficient technologies and management tools often have no access to the markets where demand for their products exists.</li> </ul> <p>To overcome this mismatch, the Act Clean project creates the <b>first Central Europe-wide network for cleaner production</b>. Act Clean connects outstanding national institutions in the field of cleaner production from all over the region.</p> <p><b>Activities</b></p> <ul style="list-style-type: none"> <li>• <b>Exchange of experience</b> among cleaner production experts and institutions across Central Europe and development of joint working procedures.</li> <li>• Identification of <b>most apparent needs</b> of SMEs in each country to enhance cleaner production.</li> <li>• Identification of <b>cleaner production highlights</b> throughout the region.</li> <li>• Development and promotion of a <b>transnational toolbox</b> bringing together best available tools to support SMEs in their cleaner production efforts.</li> <li>• <b>Matchmaking</b> of supply and demand for environmentally friendly technologies and activities between SMEs.</li> </ul> <p><b>Outputs</b></p> <ul style="list-style-type: none"> <li>• <b>Transnational Act Clean network</b> with permanent national contact points, connecting 200 outstanding institutions in the field of cleaner production.</li> <li>• <b>Good practice database</b> with around 500 good practice examples of environmentally friendly technologies and activities.</li> <li>• <b>Minimum 2500 SMEs reached</b> via the Act Clean Network.</li> <li>• <b>Cleaner production toolbox</b> providing SMEs with selected tools for eco-efficiency.</li> <li>• <b>Policy recommendations</b> on incentives for the introduction of eco-innovations in SMEs.</li> </ul> | <p>Act Clean matchmaking activities also cover the organization of regular transnational industry workshops. Such workshops provide SMEs with access to best solutions already applied in other countries and connect them with know-how and technology providers.</p> <p>Industry workshops focus on main cleaner production themes such as:</p> <ul style="list-style-type: none"> <li>• organic waste and biomass</li> <li>• decentralized wastewater treatment</li> <li>• integrated waste management</li> <li>• resource efficiency</li> <li>• renewable energy</li> <li>• environmental management systems</li> <li>... and many more!</li> </ul> <p>Participation is free of charge.</p> <p>Act Clean National Contact Points provide further information.</p> <p><b>National Contact Points</b></p> <p>National Contact Points (NCPs) help SMEs in Central Europe to make use of existing cleaner production technologies and services and to improve their environmental performance. In case of interest in a specific technology and / or service, SMEs can directly address their NCP.</p> <p><b>Germany</b><br/>Federal Environment Agency</p> <p><b>Austria</b><br/>Cleaner Production Center Austria Ltd.</p> <p><b>Czech Republic</b><br/>ENVIROS, s.r.o.</p> <p><b>Hungary</b><br/>Hungarian Cleaner Production Centre<br/>Corvinus University of Budapest</p> <p><b>Slovenia</b><br/>Jozef Stefan Institute</p> <p><b>Italy</b><br/>Italian National Agency for New Technologies, Energy and the Environment</p> <p><b>Poland</b><br/>Central Mining Institute</p> <p><b>Slovak Republic</b><br/>Slovak Cleaner Production Centre<br/>PROVENTUS</p> |

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# Projekthinhalte

- Austausch von Know-how bzgl. Umweltinnovationen
- Zugang zu innovativen und finanzierbaren Techniken ermöglichen (Best Practice, Tools)
- Aufbau eines Netzwerkes
- Politikempfehlungen für transnationale Zusammenarbeit
- Länderberichte erstellen

# Grundlage des Projektes

- Idee, Inhalte und Kontakte über Cleaner Production Center (UNIDO)
- Cleaner Production Germany
- INTERREG Anforderungen



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# Schwierigkeiten

- Wo liegt der Bedarf der KMU /SMEs?
- Belastbare Informationen aus den Länderberichten (Country Reports on SME Needs and Tools)

# Wie erreichen wir die deutschen KMU und die der Partnerländer?

- Verbände wie VDI, VDE, VBU, ZVO etc..
- Messen, Kongresse, Tagungen mit eigener Teilnahme oder Workshops vor Ort
- Eigene Workshops (national + transnational)
- Einzelgespräche, B to B Meetings, Telefonate
- Artikel in Fachzeitschriften, Europ. Infoblatt
- Newsletter

# Welche Unternehmen waren bereit für eine Zusammenarbeit?

- Auslanderfahrungen vorhanden
- Distributoren
- Finanzierung von Weiterentwicklungen und Forschung
- Schulung von MitarbeiterInnen
- Erschließen neuer Märkte
- Informationen über geplante Kontaktländer



# Was waren unsere wesentlichen Arbeiten?

- Partnertreffen, um Gemeinsamkeiten zu finden
  - Formulare, Datenbankgrundlage, Workshopthemen
  - Diskussion der Landesberichte + Zwischenberichte
  - Final Conference Oktober 2011
- Einrichten einer Datenbank, Toolboxerstellung
- Gemeinsame Veranstaltungen auf Messen
  - IFAT 2010, ECOMONDO 2010, Borsa della Ricerca
- Gemeinsame Workshops (u.a. Tea & Innovation)
- Newsletter zu vereinbarten Themen

# Transnationale Workshops

- Biomasse und Bioabfall
- Dezentrale Abwasserbehandlung
- Chemical Leasing –ein Beispiel für Materialeffizienz
- Biogasmärkte und –potentiale in Mitteleuropa
- Innovationen in der Oberflächenbehandlung
- Zentraleuropa auf dem Weg zur Ressourceneffizienz (Abschlusskonferenz)
- Workshops mit Partnern in Ungarn, Tschechischer Republik, Italien, Polen

## Chemical Leasing - Example for resource and material efficiency

Date: 06. June 2011  
Place: Kalkscheune Berlin, Johannistr. 2  
Berlin Germany  
Duration: 09:00 a.m. to 05:00 p.m. Moderation: Dr. Reinhard Joas  
Translation: German / English

| Time          | Name of presentation                                                                                                                                                                                | Presented by                                                                          |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 08:30 - 09:00 | Registration                                                                                                                                                                                        |                                                                                       |
| 09:00         | Welcome speech                                                                                                                                                                                      | Regine Maas,<br>Umweltbundesamt, Germany                                              |
| 09:05 - 09:15 | Introduction Project Act Clean and the workshop                                                                                                                                                     | Dr. Horst Pohle<br>Umweltbundesamt, Germany                                           |
| 09:15 - 09:45 | Basics on Chemical Leasing – A triple win business model, its implementation and synergies                                                                                                          | Dr. Reinhard Joas<br>BIPRO GmbH, Germany                                              |
| 09:45 - 10:15 | Criteria of Quality and Sustainability for Chemical Leasing                                                                                                                                         | Dr. Christopher Blum<br>Umweltbundesamt, Germany                                      |
| 10:15 - 10:40 | UNIDO's experience in applying Chemical Leasing at global level                                                                                                                                     | Petra Schwager<br>UNIDO - United Nations Industrial Development Organization, Austria |
| 10:40 - 11:00 | Coffeebreak                                                                                                                                                                                         |                                                                                       |
| 11:00 - 12:40 | <b>Practical Experience of Chemical Leasing in Europe</b><br>Experience reports from different Companies<br>(Metal-, Paper-, Cleaning; Packaging and Wood Industry)<br>Presentations and Discussion |                                                                                       |
| 12:40 - 13:40 | Lunch                                                                                                                                                                                               |                                                                                       |
| 13:40 - 14:00 | Chemical Leasing of solvents – a sustainable approach for metal cleaning                                                                                                                            | Leonie Willms<br>SAFECHM, Germany                                                     |
| 14:00 - 14:20 | PIUS Check+/ Chemius                                                                                                                                                                                | Henning H. Sittel<br>Die Effizienz-Agentur NRW, Germany                               |
| 14:20 - 14:40 | Coffeebreak (reforming the room)                                                                                                                                                                    |                                                                                       |
| 14:40 - 16:00 | Get together by information and Know-how Transfer, Poster session, Market of Possibilities                                                                                                          | All Participants                                                                      |
| 16:00 - 16:45 | Final Discussion and Conclusions                                                                                                                                                                    | Regine Maas<br>Umweltbundesamt, Germany                                               |

Please confirm your participation via e-mail to Regine Maass (regine.maass@uba.de) until the 1st of June 2011.

The workshop is free of charge.

# FAT 20

## water treatment

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### BIDZ Le

### Biomass

### source

### mit UBA

### en, Italien

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Transnational Industry Workshop



#### Decentralized Wastewater Treatment for SMEs

Date: 16.09.2010

IFAT 2010 (International Fair Trade for Waste and Waste Water technology)  
Munich Germany

Duration: 09:00 a.m. to 06:00 p.m. Moderation: Mrs. Dr. Defrain

Conference Room A 11/12

Translation: German / English, Hungarian / German

| Time          | Name of presentation                                                                                           | Presented by                                                        |
|---------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 08:30 - 09:00 | Registration                                                                                                   |                                                                     |
| 09:00         | Welcome speech                                                                                                 | UBA                                                                 |
| 09:05 - 09:10 | Introduction Project Act Clean and decentralized Wastewater Treatment                                          | Dr. Horst Pohle Umweltbundesamt                                     |
| 09:10 - 09:30 | Advantages of decentralized wastewater management                                                              | Ralf Peter Busse, Busse GmbH                                        |
| 09:30 - 09:50 | Innovations in the waste water technology                                                                      | Dr. Elmar Dorgeloh, PIA RWTH Aachen e.V.                            |
| 09:50 - 10:10 | Umberto - innovative modelling tool for economic and environmental process improvement                         | Martina Prox Ifu Hamburg GmbH                                       |
| 10:10 - 10:30 | Coffeebreak                                                                                                    |                                                                     |
| 10:30 - 10:50 | Membrane technology                                                                                            | Anja Busse, Busse Innovative System GmbH                            |
| 10:50 - 11:10 | Decentralised Greywater Recycling                                                                              | Dipl.-Ing. Erwin Nolde & Partner innovative Wasserkonzepte          |
| 11:10 - 11:30 | WSB(R) clean - Moving bed systems as the future of decentralized wastewater treatment                          | Lars Bergmann BERGMANN GRUPPE                                       |
| 11:30 - 11:50 | POLYDUCT's innovation for the wastewater treatment plant                                                       | Tibor Egri, Polyduct Zrt, Hungary                                   |
| 11:50 - 12:10 | Situation and experiences of decentralized Wastewater Treatment in Sweden                                      | Christian Baresel, PhD IVL Swedish Environmental Research Institute |
| 12:10 - 12:30 | SMEs as actors in regional environmental management (REMAS model)                                              | Włodzimir Sokol GIG Poland, Author of REMAS model                   |
| 12:30 - 13:30 | Lunch (reforming the room)                                                                                     |                                                                     |
| 13:30 - 15:30 | Get together by Information and Know-how Transfer: Guided Tour with Poster Session and Market of Possibilities | All Participants                                                    |
| 15:30 - 16:00 | Coffeebreak                                                                                                    |                                                                     |
| 16:00 - 16:45 | Final Discussion and Conclusions                                                                               | Regine Maaß / UBA                                                   |
| 17:00 - 18:00 | Aperitivo, one to one meetings                                                                                 |                                                                     |

Umweltbundesamt - Project Act Clean  
Mörlitzer Platz 1 • D-06844 Dessau-Roßlau  
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Transnational Industry Workshop



#### Organic Waste and Biomass – material and energy source of the future

Date: 17.09.2010

IFAT 2010 (International Fair Trade for Waste and Waste Water technology)  
Munich Germany

Duration: 09:00 a.m. to 05:00 p.m. Moderation: Mr. Josef Barth

Conference Room A 11/12

Translation: German / English

| Time          | Name of presentation                                                                        | Presented by                                                                                   |
|---------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 08:30 - 09:00 | Registration                                                                                |                                                                                                |
| 09:00         | Welcome speech                                                                              | Umweltbundesamt                                                                                |
| 09:05 - 09:15 | Introduction Project Act Clean and the workshop                                             | Dr. Horst Pohle Umweltbundesamt                                                                |
| 09:15 - 09:45 | Climate protection potential of the waste sector – focussing on Biowaste Treatment          | Marlene Sieck Umweltbundesamt                                                                  |
| 09:45 - 10:15 | Biowaste in the Context of EU Legislation - The Need and Approaches for Realization -       | Dipl.-Ing., Dipl. Journalist Josef Barth Executive Director, European Compost Network ECN e.V. |
| 10:15 - 10:30 | Coffeebreak                                                                                 |                                                                                                |
| 10:30 - 10:50 | BEKON – Biogas production through dry Fermentation                                          | Nathan Dietz BEKON Energy Technologies GmbH                                                    |
| 10:50 - 11:10 | Production of high quality fertilizer from poultry manure for low input agriculture         | Ing. Alice Dali' Ara Unità Tecnica Tecnologie Dei Materiali Faenza UTTMATF / ENEA, Italy       |
| 11:10 - 11:30 | Solar & Solar Assisted Drying of Sewage Sludge - Recent Experiences in Large Installations  | Dr. Markus Bux Thermo-System Industrie- und Trocknungstechnik GmbH                             |
| 11:30 - 11:50 | Resource utilization through organic waste - Integration of fermentation in a compost plant | Kurt Schäfer Abfallwirtschaftsbetrieb des Wetteraukreises                                      |
| 11:50 - 12:10 | Liquefied Wood – a source of raw materials                                                  | Matjaz Kunaver National Institute of Chemistry, Slovenia                                       |
| 12:10 - 12:30 | MODULAARE Decentric Production of Energy by Biomass                                         | Dr. Udo Theilen s.e.m.i. GmbH + Boss Protec GmbH                                               |
| 12:30 - 13:30 | Lunch (reforming the room)                                                                  |                                                                                                |
| 13:30 - 15:00 | Get together by Information and Know-how Transfer, Poster session, Market of Possibilities  | All Participants                                                                               |
| 15:00 - 15:15 | Coffeebreak                                                                                 |                                                                                                |
| 15:15 - 16:30 | Final Discussion and Conclusions                                                            | Regine Maaß Umweltbundesamt                                                                    |

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# ECOMONDO 2010



## Progetto ACT CLEAN

Il Progetto ACT CLEAN (Access to Technology and know-how on Cleaner Production in Central Europe) ha come obiettivo principale quello di promuovere le tecnologie e le attività industriali pulite, al fine di garantire processi di produzione eco-efficienti nelle Piccole e Medie Imprese (PMI) dell'Europa Centrale. ACT CLEAN è coordinato dall'Agenzia Federale Tedesca per l'Ambiente e prevede la partecipazione di partner da Germania, Italia, Austria, Repubblica Ceca, Slovenia, Ungheria, Polonia e Slovacchia. Il Laboratorio LCA & Ecodesign dell'ENEA di Bologna è il Contact Point italiano del progetto.

Nel quadro delle attività del progetto ACT CLEAN rientrano eventi in cui vengono predisposti workshop seminariali e sessioni di incontri (brokerage event) tra imprese sia italiane che dei Paesi coinvolti nel progetto, per favorire l'incontro tra domanda ed offerta di tecnologie pulite e strumenti per gestire e ridurre gli impatti ambientali.

Uno dei principali risultati del Progetto ACT CLEAN è il Database europeo delle Best Practices ambientali: raccoglie e descrive soluzioni tecnologiche e manageriali, con l'obiettivo di supportarne la diffusione in particolare nelle PMI.

Il Database è raggiungibile all'indirizzo [www.act-clean.eu](http://www.act-clean.eu) e consultabile gratuitamente.

Contattateci per promuovere le vostre tecnologie pulite/best practices, sia partecipando ai prossimi eventi che verranno organizzati nei Paesi dell'Europa Centrale, che per il loro inserimento nella Banca dati di ACT CLEAN.

## Gestione efficiente delle risorse idriche

**10:00 - 10:15 Diego Santi**  
**ENEA Technology Transfer Unit**  
*Introduction to the Act Clean Project and to the workshop*

**10:15 - 10:30 Regine Maaß**  
**UBA Federal Environment Agency**  
*Water resource management in Germany*

**10:30 - 10:45 Maurizio Casaroli**  
**ENEA Separation Chemistry Laboratory**  
*Innovative approaches for the treatment, recycling and reuse of wastewater: the BATTLE project and the textile industry, an Italian case study*

**10:45 - 11:00 Lars Bergmann**  
**BERGMANN Gruppe**  
*WSB® Clean - moving bed system as the future of decentralized wastewater treatment*

**11:00 - 11:15 Roberto Farina**  
**ENEA Laboratory of Protection and Management of Water Resource Laboratory**  
*Approach in the wastewater management, a case study*

**11:15 - 11:30 Francesco Clappelloni**  
**SPES**  
*Automatic analyzer for biological activity monitoring: experimentation in civil wastewater treatment plant which treats leachate*

**11:30 - 11:45 Wolfgang Pöhnl**  
**PPU Umwelttechnik GmbH**  
*Clearfox® nature: Innovation for domestic wastewater - non electric fully biological treatment*

**11:45 - 12:00 Alessandro Monti**  
**GE Water & Process Technologies**  
*Advanced treatment schemes from GE for water re-use: industrial and municipal full-scale applications*

**12:00 - 12:15 Luca Fiorani**  
**ENEA Diagnostics and Metrology Laboratory**  
*Compact and advanced laser spectrometer for water quality analysis*

## Efficienza energetica ed energie rinnovabili

**Tavola rotonda 11:30 - 13:00**

**Carlo Manna - ENEA (Ufficio Studi Roma)**  
*Efficienza e rinnovabili: scenari di sviluppo tra mercato e industria*

**Mirko Amalfitano - CEFLA**  
*Innovazioni efficaci per il recupero di calore nell'industria*

**Regine Maaß - Federal Environment Agency**  
*Supporting tools for the use of Energy-efficient technologies in SMEs created by DENA (German Energy Agency)*

**Alberto Cacciani - Gesta**  
*Fotovoltaico: una fonte rinnovabile come leva dell'efficienza energetica*

**Marisa Mäder - LEM**  
*The LoadManager- efficient management and forecasts of Energy data for Energy suppliers, industrial companies, and network operators*

**Nicola Braghieri - CPL CONCORDIA**  
*La trigenerazione come opportunità di risparmio*

Moderà il giornalista **Marco Fratoddi**, Direttore de "La Nuova Ecologia"



actclean

mondo 2010  
imini  
novembre  
workshop

efficiente delle  
risorse idriche  
za energetica ed  
nergie rinnovabili

Project is implemented through the  
CENTRAL EUROPE Programme  
co-financed by the ERDF

# ECOMONDO 2010

B to B Meetings mit verschiedenen Anbietern  
an deren Messeständen

Podiumsdiskussion „Statements“ zu Energy Efficiency +  
Management – Vorstellung einzelner Produkte

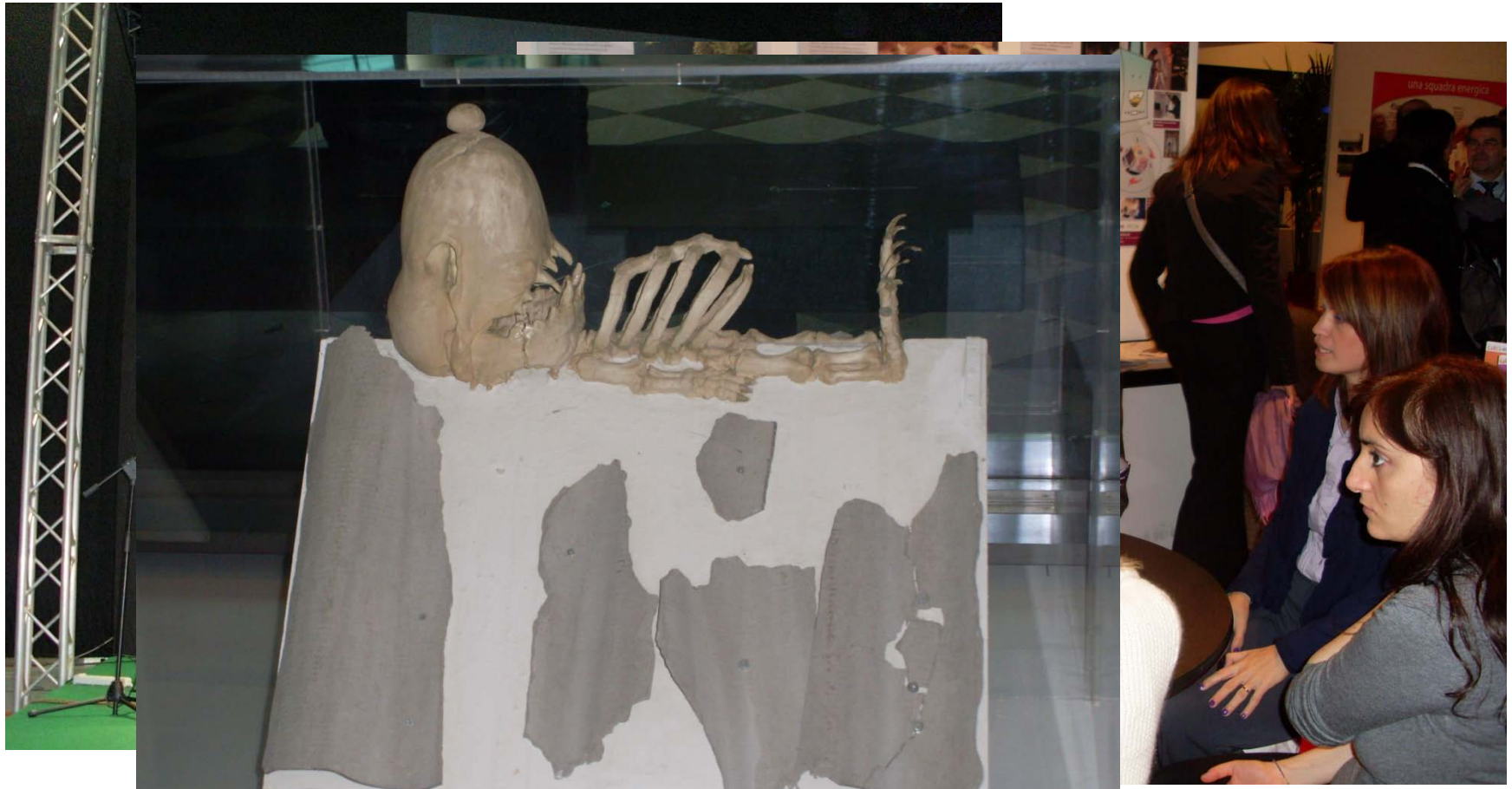
Vortrag „EFFICIENT MANAGEMENT“

- Water Ressource Management in
- WSB CLEAN- Moving Bed Systems  
Wastewatertreatment (Lars Bergm)
- Clearfox nature: Innovation for dom  
fully biological treatment (Wolfgang





# ECOMONDO 2010



# Eigene Veranstaltungen

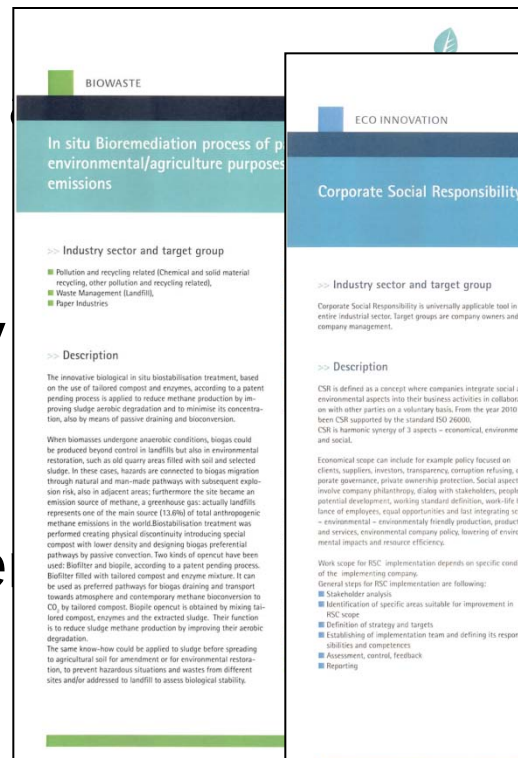
- EUREGIA 2010 Informationsstand (Koop SPIN)
- TERRATEC 2011 Podiumsdiskussion
- Netzwerkworkshop im März 2011 (Koop SPIN)
- Teilnahme an Tagungen und Kongressen
  - Biogastagung 2010, NORTEC 2010, Hannover Messe, IFAT 2010, DENA Energietagung 2011
- Persönlich Netzwerkgespräche
  - TÜV Nord, TÜV Rheinland, EfA NRW, IHK, DIHK u.a.



# Ergebnisse der Workshops

- Demographischer Wandel auch in Zentraleuropa, zzgl. Landflucht
- Einsicht zur Abwasserklärung beginnt (Budapest ab 2007)
- „Forest is spreading“ in Slowenien
- Landwirtschaftliche Abfälle als Ressource in Italien
- Chemical Leasing ermöglicht Ressourcen schonenden Umgang
  - Serbien ist hier mit mehreren Beispielen dabei
- Tschechische Republik im Bereich Biogas gut vertreten
- Ungarn hat relativ komplizierte Einspeisevergütung (Hpt./Nebenzeit)
- Grenznahe Förderung (Transnationalität) der KMU ist erfolgreich
  - Nordex Windkraftanlagen Rostock, Oberflächenbehandlung in Greifswald

# Broschüre transnationaler Umweltinnovationen



# Transnationale Agenda



# Transnationale Agenda - Kurzform

- Entwickelt aus dem Synthese Report
- Zielgruppe: EU und nationale politische Entscheidungsträger, Unternehmensverbände, regionale Entwicklungsagenturen, Finanzierungsinstitutionen
- Ergebnisse:
  - Stärkung des Netzwerkes für Wissenstransfer und Zusammenarbeit
  - Harmonisierung von Standards und Normen
  - Unterstützung des Politik-Industrie Dialoges
  - Entwicklung von Trainingsprogrammen für CP Innovationen + Nachhaltigkeit
  - Stärkung der Gesetzgebung, ökologische Beschaffung und Eco-Labeling
  - Unterstützung integrierter Managementsysteme
  - Erleichterung für KMU an Kapital zu gelangen
  - Entwicklung innovativer Finanzierungsinstrumente
  - Beschleunigung von Entscheidungsprozessen für staatliche Unterstützung

# Vielen Dank für Eure / Ihre Aufmerksamkeit

[www.act-clean.eu](http://www.act-clean.eu)



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