

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)





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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DEVELOPMENT FUND



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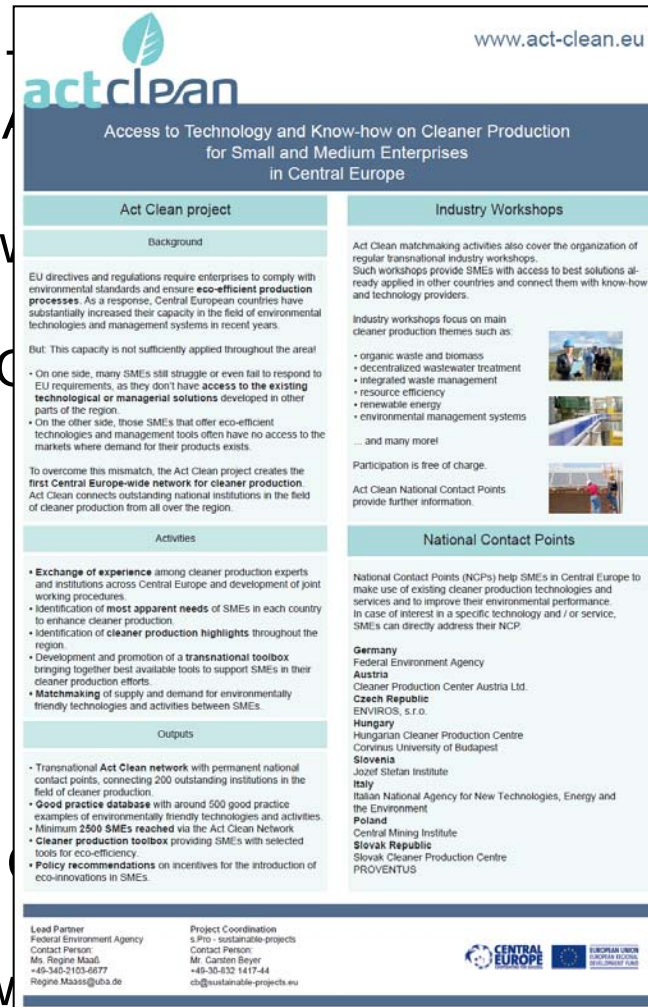
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Bundesministerium für Umwelt
Umweltbundesamt (UBA)



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Projekthalte

- 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, Umweltbundesamt, Germany
09:05 - 09:15	Introduction Project Act Clean and the workshop	Dr. Horst Pohle Umweltbundesamt, Germany
09:15 - 09:45	Basics on Chemical Leasing – A triple win business model, its implementation and synergies	Dr. Reinhard Joas BIPRO GmbH, Germany
09:45 - 10:15	Criteria of Quality and Sustainability for Chemical Leasing	Dr. Christopher Blum Umweltbundesamt, Germany
10:15 - 10:40	UNIDO's experience in applying Chemical Leasing at global level	Petra Schwager UNIDO - United Nations Industrial Development Organization, Austria
10:40 - 11:00	Coffeebreak	
11:00 - 12:40	Practical Experience of Chemical Leasing in Europe Experience reports from different Companies (Metal-, Paper-, Cleaning; Packaging and Wood Industry) Presentations and Discussion	
12:40 - 13:40	Lunch	
13:40 - 14:00	Chemical Leasing of solvents – a sustainable approach for metal cleaning	Leonie Willms SAFECHM, Germany
14:00 - 14:20	PIUS Check+/ Chemius	Henning H. Sittel 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 Umweltbundesamt, Germany

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

The workshop is free of charge.

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Biomass
source

with 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	SME's as actors in regional environmental management (REMAS model)	Włodzimierz Sokół 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
www.act-clean.eu, www.uba.de



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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 Decentral 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 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



Baltic Sea Region
Programme 2007-2013

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**Umwelt
Bundes
Amt**
Für Mensch und Umwelt



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ECOMONDO 2010

B to B Meetings mit verschiedenen Anbietern
an deren Messeständen

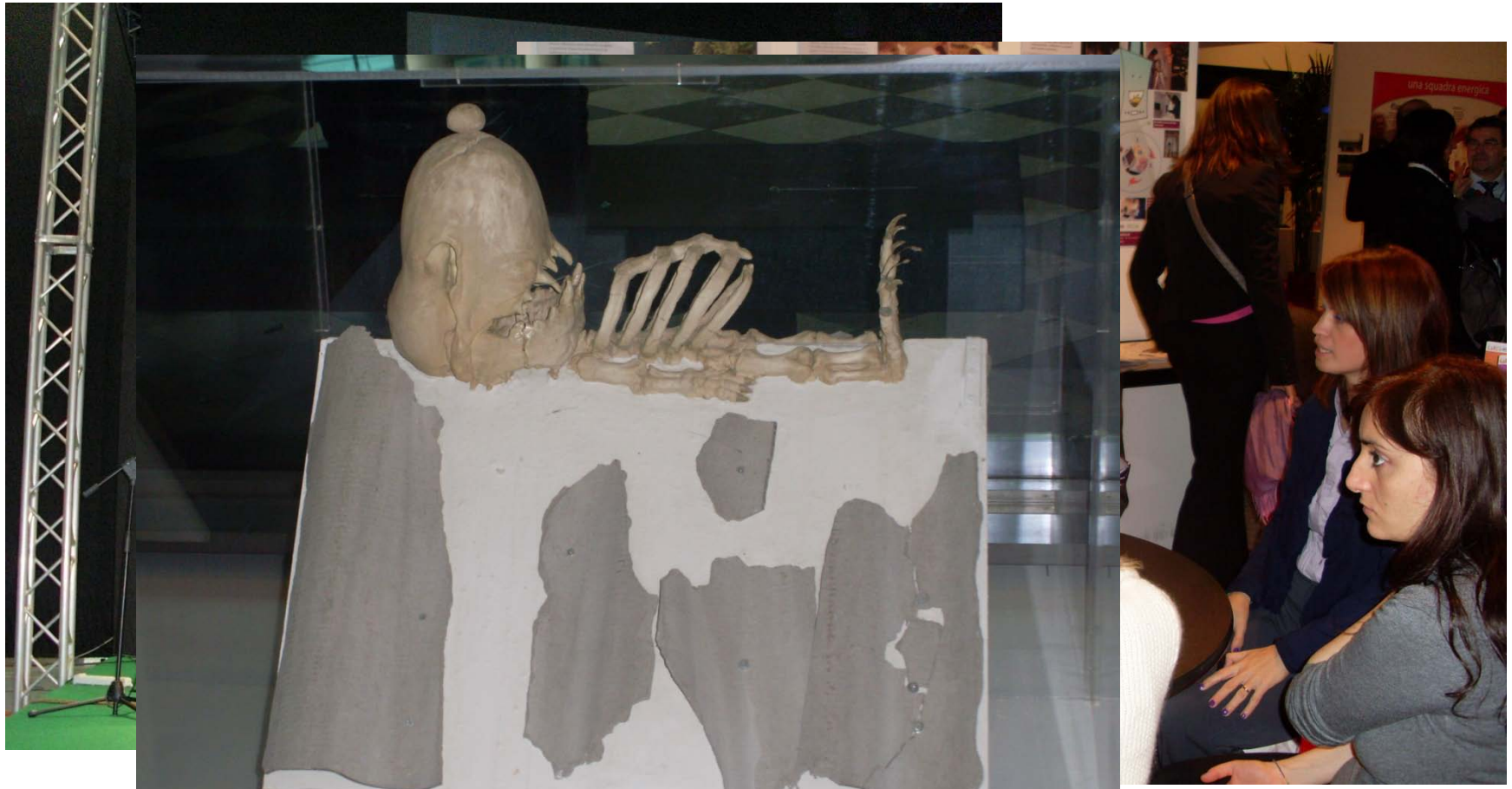
Podiumsdiskussion „Statements“ zu Energy Efficiency +
Management – Vorstellung einzelner Produkte

Vortrag „EFFICIENT MANAGEMENT“

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



ECOMONDO 2010



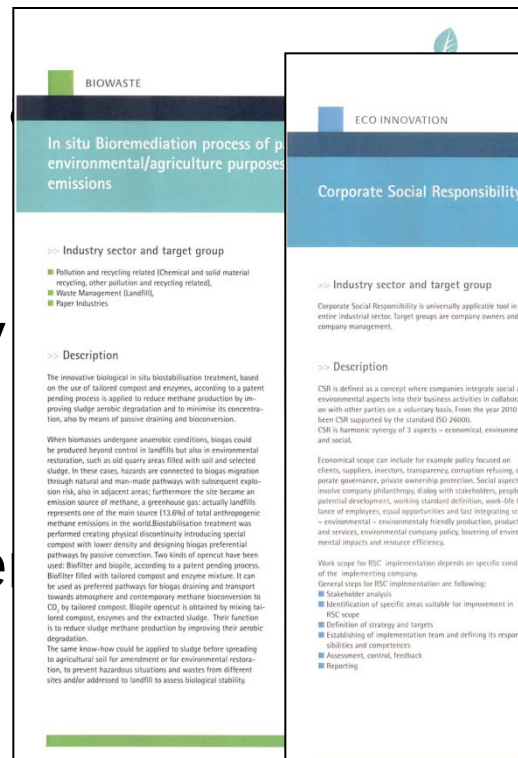
Eigene Veranstaltungen

- 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

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