

PRESURCE

Actors and Activities in the field of Resource Efficiency in Austria

Combined presentation of the results from mapping actors and from mapping activities (at policy and economic level), relevant projects and networks in the field of resource efficiency in one country report (relates to outputs 5.1.4. and 5.1.12)

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1. Summary

As an overall result of the review of actors relevant for resource efficiency in small and medium-sized enterprises of the manufacturing sector and their activities in Austria (done within the PRESOURCE project in 2013) the following can be stated:

- The Austrian Federal Government is the coordinating actor of activities in support of resource efficiency with several Federal Ministries and State Agencies being involved
- Public actors in Austria are most active when it comes to funding, information, support and other instruments
- For these Public Actors in Austria the National Action Plan on RE, containing aims on decoupling (environmental effects/ resource consumption) and RE increase, is in place and constitutes a central instrument
- On the other hand private actors are participating in research and implementation projects, technology development, PPPs and networking. These projects and activities are often initiated, funded and implemented by Federal States and their agencies
- Networks consist of multiple actor categories (private, public, scientific, NGO, etc.) or are aligned to actor groups, industrial sectors, policy areas or geographic entities. In particular in Austria there is a very good database, even for worldwide resource flows: SERI is a statistical pioneer

2. Introduction

One of the deliverables of the PRESOURCE project is an overview of actors relevant for resource efficiency in small and medium-sized enterprises of the manufacturing sector and another deliverable is to provide an overview of their activities in Austria.

The activities of different actor categories have been screened and those, who engage actively in promoting resource efficiency – especially in SME of the manufacturing sector – have been described in this country report on actors and activities.

The following actor categories have been found to initiate, support or manage relevant activities: national and regional government ministries and related agencies, other agencies and associations, chambers of commerce, norms and standards institutions, research institutes and think tanks, local networks, economic clusters and municipalities.

The activities relevant for resource efficiency in small and medium-sized enterprises of the manufacturing sector found in all mentioned actor categories are shortly described in the report, so that it provides a unique overview of actors and activities relevant for that thematic focus. The combination of the different levels from the public and private sectors gives a full picture of how different actors interact and complement in delivering progress on the way to a resource efficient economy. This research is a necessary condition to develop the ability to analyse the complex societal structure and the division of labour leading to desired political outcomes.

The second part of the report takes the perspective of activities and describes relevant forms of support structures, instruments and tools. It provides some concrete examples but does not repeat all activities of the above-mentioned actors. The relevance of the actors is determined by their activities, which are detailed in their descriptions. As for example nearly all actors are providing information services and some of them provide consultation services, the kind of information or consultation service they provide is explained in the description of the actors and their activities above. The second part mainly gives an overview of possible practical approaches, whose implementation and combination with other instruments can vary considerably.

3. Stakeholders & Activities

3.1. Additional national policies

Have additional national policies, incentives, voluntary agreements and strategies in the production sector been developed to fulfil objectives set in the Roadmap to a Resource Efficient Europe?

A national action plan on resource efficiency was developed by the Ministry of Life (Federal Ministry of Agriculture, Forestry, Environment and Water Management) and published in January 2012. It aims at completely decoupling the environmental effects from the resource consumption and a 50% increase of resource efficiency (RE) by 2020. The fields of activity are: RE production, public procurement, closed loop economy, awareness rising. In the plan only existing measures in the field of production are included (e.g. Consulting, subsidies) and recommendations are given on how to

increase their effect on RE for the period 2012- 2013, but no binding goals and indicators were defined.

3.2. National/regional government ministries and agencies

Who is responsible for the topic of Resource Efficiency in the production sector on the governmental level? (e.g. Ministry of Commerce, Ministry of Environment) Which department is taking the lead? Which activities and actions to enforce RE are taken? In case of federal states, please include information on national and sub-national level.

3.2.1. Federal Ministry of Agriculture, Forestry, Environment and Water Management (Ministry of Life)

<http://www.lebensministerium.at/en.html>

- Creator of Re action plan in 2012
- Creator of 6 national waste management plans in the last 20a
- Publisher of 2 RE best practice reports
- Co-organiser of congress on RE (2012)
- Co-publisher (with Ministry of Economy) of report on resource use in Austria (2011)
- 1st Austrian Roundtable on RE (2010)
- State Price on CleanTech, with special prize for RE start-up, co-initiated with BMWJF and BMVIT

3.2.2. Federal Ministry of Economy, Family and Youth (BMWJF) - Center1: Economic Policy, Innovation and Technology and Section IV: energy and mining

<http://www.en.bmwfj.gv.at>

- Co-publisher of report on resource use in Austria (2011)
- Co-organiser of congress on RE (2012)
- Ensure security of supply of resources
- Economic policy with regards to sustainability in general
- Compact for energy efficiency with companies
- Patronage for several National Prizes (e.g. environment and energy, packaging, innovation)

3.2.3. Federal Ministry for Transport, Innovation and Technology (BMVIT)

<http://www.bmvit.gv.at/en/innovation/sustainable.html>

- Past program: Factory of Tomorrow (2000-2009)

- Current program (2011-2013): Production of Tomorrow: Subsidies for R&D. No. 1 aim: efficient resource and raw material use

Federal States

3.2.4. Vienna

<http://www.wien.gv.at/english/environment/protection/eco/>

- City of Vienna runs an ECOPROFIT program since 1998. In addition it provides subsidies for consulting outside of the ECOPROFIT program

3.2.5. Upper Austria

http://www.land-oberoesterreich.gv.at/cps/rde/xchg/ooe/hs.xsl/41159_DEU_HTML.htm

- Increasing RE as general aim outlined in the guidelines for subsidies by the Federal State. Measure: subsidies for investment in environmental protection, EE and RES

3.2.6. Lower Austria

<http://www.oekomangement.at/index.php?id=55>

http://www.noel.gv.at/Umwelt/Umweltschutz/Foerderungen/betriebliche_umweltfoerderung.html

- Subsidises consulting on RE (in a broader sense) by Öko-Management
- Subsidies for environmental investments, which can be combined with subsidies from KPC

3.2.7. Styria

<http://www.win.steiermark.at/cms/beitrag/11701000/10343237/>

<http://www.zukunftsfonds.steiermark.at/cms/ziel/79305483/DE/>

- Subsidises consulting by “Wirtschaftsinitiative Nachhaltigkeit” (WIN): since 2002: 1000 consulted companies
- Zukunftsfonds of Styrian Government. Subsidies for projects. In 2009: focus of call on RE. 250 projects in 6 calls

3.2.8. Burgenland

<http://www.eabgld.at/index.php?id=1547>

- Subsidises consulting on RE since 2011

3.2.9. Carinthia

<http://www.energiebewusst.at/index.php?id=302>

- Subsidises consulting on RE since 2010

3.2.10. Salzburg

<http://www.umweltservicesalzburg.at/de/ueberuns/index.asp?dat=Tr%C3%A4ger>

<http://www.klup-salzburg.at/>

- Co-owner of “Umwelt Service Salzburg”
- The Federal State runs the “Climate and Environment compact”, which provides subsidies for EE and other RE measures. They can be combined with subsidies by KPC

3.2.11. Tyrol

<http://www.tirol.gv.at/themen/wirtschaft-und-tourismus/wirtschaftsfoerderung/wirtschaftsfoerderungsprogramm/beratungsfoerderung/>

<http://www.tirol.gv.at/themen/landesentwicklung/nachhaltigkeit/unsere-aktivitaeten/tiroler-nachhaltigkeitsstrategie/>

- Subsidies for environmental consulting of SMEs of max 50%
- Like in Salzburg and Lower Austria, the federal state of Tyrol enhances the subsidies of the State (managed by KPC) for several specific topics.
- Set up a strategy on sustainability, strongly referring to RE

3.2.12. Vorarlberg

<http://www.energieinstitut.at/?sID=3094>

- Subsidies for environmental consulting activities, ECOPROFIT

3.3. Additional comments

Any additional comments on the responsibilities of Resource Efficiency? (e.g. unclarity about distribution of responsibilities, main political driver)

- No additional comments.

3.4. Agencies, chambers, associations and networks

Which are relevant actors contributing to the implementation of Resource Efficiency actions concerning the production sector?

3.4.1. Public agencies (state owned)

UBA

<http://www.umweltbundesamt.at/en/>

http://www.umweltbundesamt.at/fileadmin/site/umweltkontrolle/2010/ukb2010_10_ressourcenmanagement.pdf

- Co-Author of “Green tech Report” on RE in companies: exemplary best Practice Examples; and of study on resource consumption in Austrian Industry
- Co-organiser of congress on sustainable resource management in D, A, CH (2009, 2011)
- Reports on environmental situation in Austria: e.g. resource and waste management

FFG

<http://www.ffg.at/en>

- Management of public funds (for R&D: several programs fit to RE: intelligent production, energy mission Austria) and European Eco-Innovation calls
- Co-organised the Eco-Innovation Roundtable in 2011

KPC

http://www.umweltfoerderung.at/kpc/en/home/support_schemes/

- Management of public funds (subsidies of investment in RE in a broader sense: energy supply, energy savings, mobility, water)

Energy Agency of Upper Austria (Energiesparverband)

<http://www.esv.or.at/english/home/>

- Owned by the Federal State of Upper Austria. Manages its subsidies for all environmental topics. Organises events and trainings, makes brochures, manages the eco-energy cluster and helps companies on internationalisation

Umwelt Service Salzburg

<http://www.umweltservicesalzburg.at/de/angebote/foerderungen.asp>

- Subsidises consulting in the Federal State Salzburg. E.g.: energy-check for producing companies. Waste- and resource-management

ZIT (Business Promotion Agency of Vienna)

<http://www.zit.co.at/en/allgemeines/about-us.html>

- Call for subsidies on RE (2009)

WIBAG Business Promotion Agency Burgenland

<http://www.wibag.at/index.php?id=141>

- Subsidises investments in environmental sound measures by companies. (phasing out end of 2013)

Statistics Austria

http://www.statistik.at/web_en/

- Overview on ecological taxes in the last 20 years
- Collects basic data and continuously expands the data for lots of further research such as the study “resource use in Austria”

AWS

www.awsg.at

- Austrian federal development and financing bank, which provides grants, loans and guarantees. One subsidy scheme on eco-innovation/RE

3.4.2. Private sector agencies

SERI

http://www.statistik.at/web_en/

- Study on the worldwide material use

IV

<http://www.iv-net.at/bm50>

- Initiated a politico-economic discourse with natural resources among the main topics.
- Published a report on resource security for a RE industry with political recommendations

OGUT

<http://www.oegut.at/en/portrait/index.php>

- Interdisciplinary research, knowledge exchange

3.4.3. Chambers (e.g. Chamber of Commerce, Chamber of Industry)

WKO (Chamber of commerce, Austria)

https://www.wko.at/Content.Node/wir/Austrian_Economic_Chambers_Home.html

- Co-organiser of 1st Austrian Roundtable on RE

WKNO (Chamber of commerce, Lower Austria)

http://portal.wko.at/wk/format_detail.wk?AngID=1&StID=373387&DstID=951

- Subsidises consulting on ecological issues. (subsidised rate: 100% for up to 8h, 75% for up to 20h)

WK Vienna

http://portal.wko.at/wk/format_detail.wk?angid=1&stid=722880&dstid=834

- Series of workshops/ speeches / talks on RE for companies (since 2011)

WKOÖ (Chamber of c., Upper Austria)

http://portal.wko.at/wk/format_detail.wk?angid=1&stid=620830&dstid=6788

- WKOÖ teamed up with the federal state of Upper Austria to initiate a subsidy on consultation of companies on RE. 50% and max. 1,050€ are subsidised

3.4.4. Associations (e.g. Association of Engineers)

Upper Austrian Cluster of environmental technology companies

http://www.clusterland.at/1037_DEU_HTML.php

http://www.ressourceneffizienz.at/images_content/Interreg_Broschuere_download.pdf

- Network initiative on resource and energy efficiency
- Study, 2012: Initial analysis for ways to a RE production, expert interviews

ECO World Styria

www.eco.at

- ECO is the world's leading business cluster in the field of energy and environmental located in Styria. Also acts as a financing agent. Fosters several topics on business level, e.g. urban mining

Austro Paper

<http://www.austropapier.at/index.php?id=323&L=1%2527%2560%2528%255B%257B%255E~>

- Contributed to a Low-Carbon Bio-Economy Roadmap 2050 for the Forest Fibre Industry

3.4.5. Networks (e.g. Resource Efficiency Network)

Network initiative on resource and energy efficiency

<http://www.nree.at>

- Initiated by the Upper Austrian Cluster on environmental technology companies
- Mainly organises event / workshops

Network of Eco-Energy in Styria

http://noest.or.at/downloads/NOEST_fact_sheet.pdf

- Knowledge and information transfer, events and awards, specialised training seminars

3.5. Norms and standards institutions

Who is determining the norms, standards and guidelines for Resource Efficiency in SMEs in the production sector?

3.5.1. Austrian Standards

<http://www.as-search.at/>

- Only ISO Norms affecting RE (e.g. ISO 14XXX, ISO 50001)
- Resources not a separate topic for norming

3.6. Research institutes and think tanks

Which research institutes and think tanks are engaged in Resource Efficiency in the production sector?

3.6.1. ARGE waste prevention

http://www.arge.at/www_index.php

- NPO on waste prevention and RE
- Runs its own academy

3.6.2. Joanneum Research

<http://www.joanneum.at/en/resources.html>

- An own institute only for resources (water, energy)

3.6.3. Resource Management Agency

<http://www.rma.at/en/node/1090>

- EU research projects, e.g. on calcium carbonate recovery

3.6.4. University of Leoben

<http://www.unileoben.ac.at/index.php?lang=en>

- Establishment of an FFG-subsidised “Research Studio Austria”
- Congress: sustainable management for industries

3.6.5. Profactor

<http://www.profactor.at/en/home.html>

- No.1 in Austria in applied production research

3.6.6. Vienna University of Technology

http://www.tuwien.ac.at/en/tuwien_home/

- Research projects, e.g. on RE iron production

3.7. Other actors and multipliers

Which other actors are multipliers to SMEs for Resource Efficiency in the production sector? (e.g. Suppliers, Tradesmen)

3.7.1. Organisers of Exhibitions: Energy Saving in Wels

<http://www.expoenergy.eu/ne07/?pn=3>

- In 2013: focus on resources and materials

3.8. Economic clusters, regions and municipalities

Are there economic clusters, regions or municipalities that are particularly known for their initiative/support concerning Resource Efficiency in SMEs? If yes, which ones are they and what are they famous for?

3.8.1. Eco World Styria

- growth rates of the total turnover of all companies in the cluster are particularly high

3.8.2. Standpunkt Liesing

- RE Industrial Zone: EU-funded pilot project to increase RE on a local level by cooperation

4. Instruments/Tools

4.1. Support structures (awards, EMAS)

Which support structures exist to highlight resource efficient approaches in SMEs? (e.g. Awards, EMAS)

4.1.1. Energy Globe

<http://www.energyglobe.info/>

- Starting from a regional level, ending at a world award. Categories: Earth, water, fire, air. Since 1999 6,000 applications

4.1.2. State Prize for CleanTech

<http://www.ecolinx.com/en/state-prize/>

- 3 categories: R&D, Energy&Efficiency, Environment&Climate
- Companies, municipalities as well as R&D institutes can apply

4.1.3. ECOPROFIT awarding ceremony

<http://www.oekoprofit.com/about/award.php?lang=en>

- The certificate is the highlight and closing of a successfully executed ECOPROFIT Program

- Depending on the region/city, there are different categories for additional awards

4.1.4. klima:aktiv

<http://www.klimaaktiv.at/unternehmen/Vorreiter/AZVA.html>

- Rewards energy efficient companies
- Supported by the Ministry of Life

4.2. Other specific tools and instruments

List existing instruments/ tools that are used to improve Resource Efficiency in SMEs (please indicate whether instruments are used by private actors, public actors or both)

- **Subsidies, loans, guarantees:** only for making RE economically attractive
- **Consultation:** guidance for a systematic approach, continuous improvements
- **Work sheets / (e)learning / guides / calculators:** empowerment

4.2.1. Related to production processes

STABIS

<http://stabis.fh-joanneum.at/>

- Extending the instruments of the enterprise information system by criteria of sustainable development and supporting them by balances of processes and material flow analysis.

PREPARE toolkit:

- Provides guidance for companies and consultants on RE. It gives a feeling how an environmental team should look like and how waste, energy and water can be managed through a simplified environmental management system.

Ecoprofit Materials:

- Check list, step-by-step guidance and also an environmental reporting template with KPIs for self-assessment

PINE tools

<http://www.pineaudit.eu/eng/resources.aspx>

- Promoting industrial energy efficiency

4.2.2. Related to products

EcoDesign

<http://www.ecodesign.at/pilot/ONLINE/ENGLISH/INDEX.HTM>

- Pilot by Vienna University of Technology

4.2.3. Related to the entire supply chain

UNIDO ToT materials

<http://www.unido.org/index.php?id=o862050>

- Aim at the training of trainers in the field of cleaner production. It consists of 12 volumes (team building, flow analyses, green procurement, idea generation,...). It can be ideally combined with the setup of a CP project.

4.3. Labelling

Which resource efficient labelling exists?

4.3.1. Umweltzeichen (Austrian Eco Label)

<http://www.umweltzeichen.at/cms/home233/content.html>

- For products, Tourism and Educational companies and green meetings.
- High standard of criteria. Established in 1990, run by the Ministry of Life, more than 1000 products certified.

4.4. Standards

Which standards regarding the measurement of Resource Efficiency exist?

4.4.1. ISO 14040 and ISO 14044

- Environmental management – Life cycle assessment – Principles and framework