

Mobilising resources for effective skills responses

klima:aktiv, Austria

Promoting green skills for climate protection

DI Johannes Fechner 17&4 Organisationsberatung GmbH klima:aktiv Bildung





Personal Background

Johannes Fechner

Founder and Managing Partner of 17&4 Consulting Ltd.

Coordinator of vocational training activities within the Austrian climate initiative klima: aktiv since 2004

BUILD UP skills; EU Intelligent Energy Europe

Masterplan Human ressources for renewable energy technologies, Austria

Lecturer (Univ. BOKU, FH Technikum) and vocational training institutes

Dipl.-Ing., energy consultant





Green Production and Services

Austria Eurostat conform	2011
Turnover total	33.000 Mio €
Percentage of GDP (nominell)	11 %
Employees (full time equivalent)	171.000
Percentage of all employees	5 %



Green Technologies - Austria

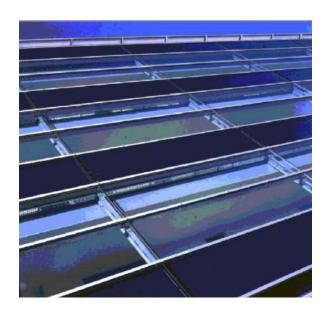
390 Number of enterprises producing eco technologies

8,2 Mrd. €/a turnover: (+ 500 % since 1993)

6 Mrd. €/a exports

28.600 employees







Masterplan Green Jobs - Austria

+ 100 000

green jobs until 2020:

investment in thermal insulation and heating (35,000), energy system - renewable energy (20,000), public transport (15,000), environmental services in tourism (13,500), use of forest biomass (6,500), increasing the export rate (6,000), environmental services (4,000)





- → Not every green jobs needs green skills
- → Comparison of statistics problematic due to unclear definition of green jobs
- → A Masterplan should be more than a study





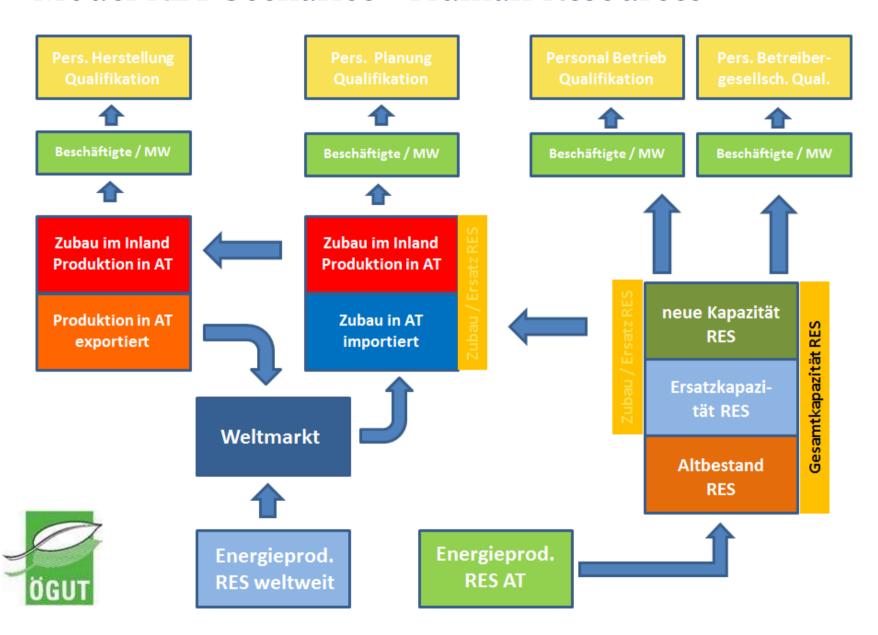


Scenarios

Screening

Stakeholder

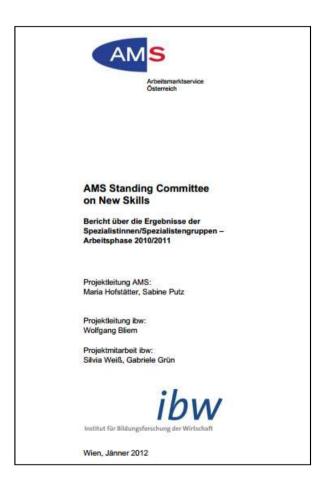
Model RET Scenarios - Human Resources

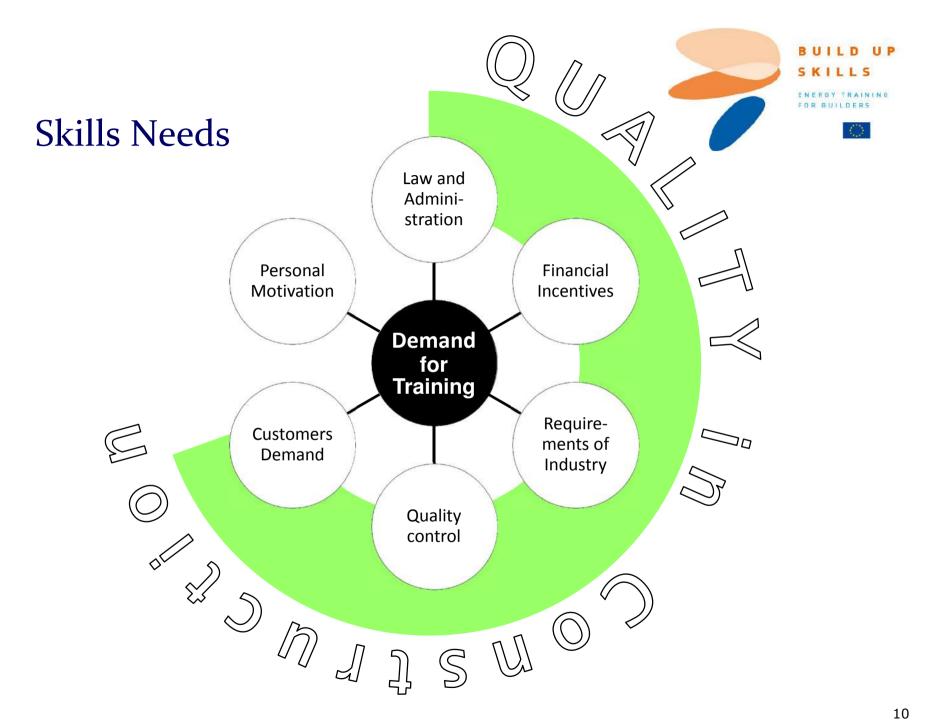




AMS Standing Committee "NEW SKILLS"

- ► Trends and skills needs
- ► Training curricula
- ▶ 210 learning units
- "for our clients"





Focused implementation of existing strategic plans

Tuning the search for courses



Use of labour market policies

Update the job descriptions

Practice of granting concessions in trade licenses

Official Inspection of construction

- Cross-crafts-training: Austrian Standard, modular
- Quality Coach at construction site: new service, labour market relevant
- Additional qualification for the inspection of heating and air conditioning systems
- Training of teachers in vocational schools

Platform for the representa tion of acquired skills

Reports on defects and damages as a basis for training







www.buildupskills.eu

Guidelines for Apprenticeship

Quality requirements in public tenders

Reduction of insurance premiums if qualified workforce

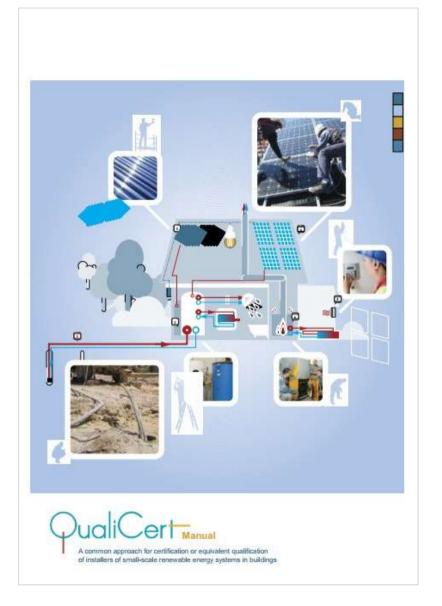
ROADMAP Measures





"Common quality certification and accreditation for installers of small-scale renewable energy systems"

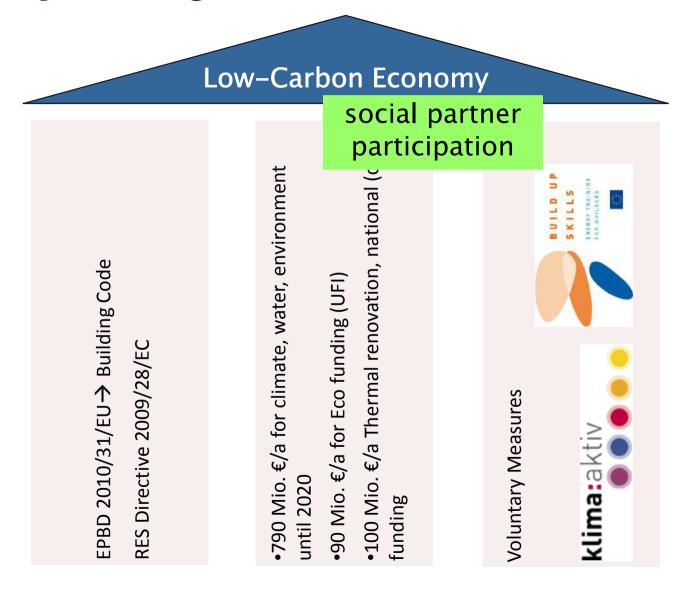
RES directive





- → Training providers, even ministries are competing, marketing their products
- → No long term forecasts for quantity of skills needs
- → Quality of skills: basics more relevant than specials
- → Greening of skills (in existing education and training
- → EU incentives useful: NQF, QualiCert, BUILD UP Skills

Policy making



Austrian Climate protection initiative



Umbrella brand for voluntary measures of Austrian climate strategy.

Initiative of the MINISTRY OF ENVIRONMENT [2004]

Primary objective is to introduce and promote climate friendly technologies and services:

Building - mobility - energy saving - renewable energy



klima:aktiv - Governance for Climate Protection



Evaluation by the Wuppertal Institute and the Institute for SME Research Austria:

"An outstanding example of a comprehensive and integrated climate change program"





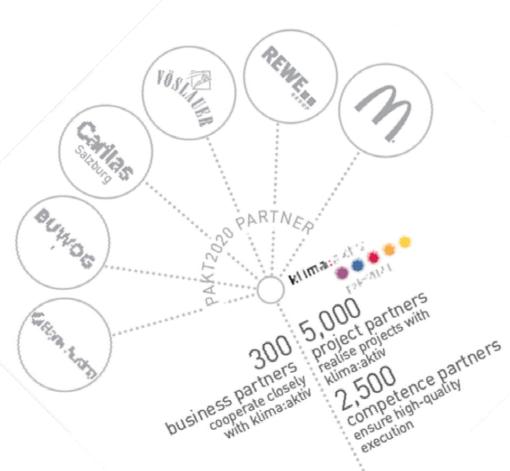




Activating Partners & Networking: Companies – Länder – Civil Society:

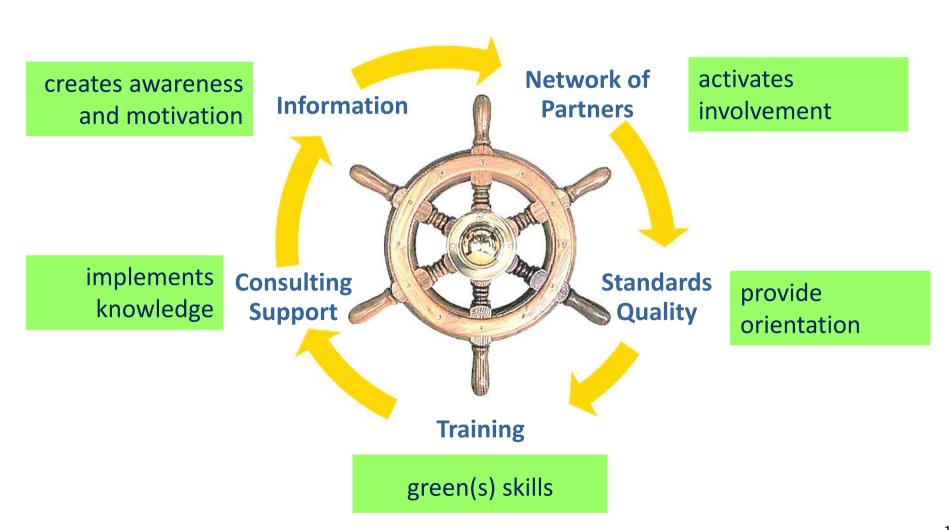
Developing and spreading knowledge, sharing of resources

- ▶ 300 business partners incl. associations and Chamber of Commerce
- ▶ 12 klima:aktiv pakt2020 partner signed voluntary agreements to realise ambitious goals for climate protection until 2020
- Co-operation with all Austrian "Länder"





klima:aktiv - steering transition





klima:aktiv Building Standards

Energy
Air Tightness
Thermal Bridges
Construction (eco)
Ventilation
Summer Comfort
Indoor Air Quality
Infrastructure
Bycicle parking
(Life Cycle Cost)



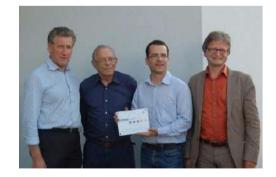
250 buildings with klima:aktiv certificate

Building Standard: Actors













klima:aktiv Network: Training Institutes, Professionals, Companies, Associations

We create a network of specially qualified professionals,



klima:aktiv competence partners

actively involving existing **training institutions**, currently 24 partner organisations, amongst them ...









Energie AG EnergieeffizienzberaterInnen







E-learning Plattform - Networking

Community for seminar participants

1000 user - blended learning

Open for all klima:aktiv partners, Moodle based – low budget!

Training material, tests, links

Forum (only information)

Basis for common standard of training



Certified training for energy pass



Certified Passive House Planner



Certified Heat Pump Installer



Certified Solar Thermal/PV Installer



Biomass Heating Systems



Biowärmeinstallateur



Greening Skills for Refurbishment: Subsidy + Social Partners + klima:aktiv

Good practice:



- + Subsidy for thermal refurbishment (5.000/12.000/20.000 €)
- + Requirements for energy performance (Energy pass)
- + Qualification developed together with guilds and clusters

4 day training for 240 building professionals in Lower Austria











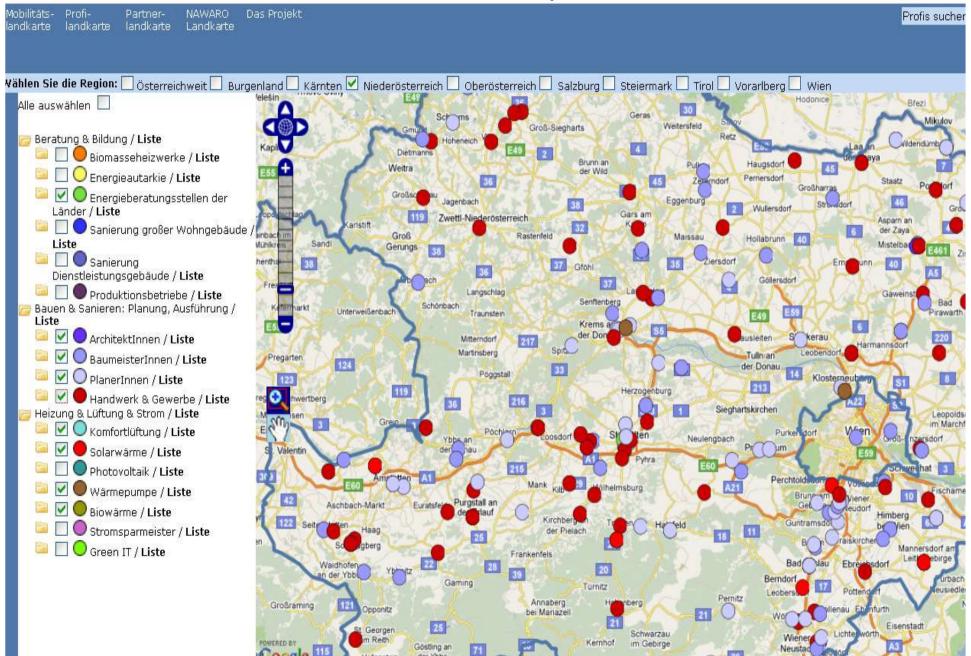
Weiterbildung:

klima:aktiv Kompetenzpartner Althaussanierung



www.maps.klimaaktiv.at







Vocational and further education

Learning how to plan and implement complex technologies

- 9,000 professionals trained by klima:aktiv (plumbers, master builders, eco-driving trainers, planners, energy consultants...)
- ▶ 900 professional building specialists in active exchange on the e-learning platform
- 980 fuel-saver trainers trained
- new trainings "Fit for E-Bike", "Bicycle Mechanic" and "bioheat plumbers" installed
- ▶ 20 youth mobility coaches



Consultation and Support for Implementation:

Experts help facilitate the implementation of refurbishments, larger heating systems, optimum heating plants, mobility management

- Mobility management consultations in 3500 companies, institutes, local communities
- ▶ 125 e5 communities (European Energy Award)
- Retrofitting consultation in 2500 buildings
- About 10.000 environment friendly cars, pedeleces and escooters got klima:aktiv subsidies
- ▶ 111 cycling projects (investments in cycling infrastructure) got 21,6 Mio € subsidies



Information & Raising Awareness:

On-line offers and info hotlines provide initial information; good examples demonstrate how it works

- ▶ 1,3 million hits a year on the klima:aktiv websites
- ▶ 32.500 specialist newsletter subscribers
- Austrian Television: 21 million people watched the climate protection award examples, Youtube klima:aktiv flims
- klima:aktiv in print media on average 4-times a day



Lessons Learned 1 Development of green skills needs coordination

- "Green Job" still unclear; "Greening of Jobs"
- Green technologies need special know-how, coordination of training offer for green skills is weak; mainly market driven by various interests, many providers, many trainings do not find enough participants
- Demand for green skills is only slightly market driven, it is often more a political idea, vocational training mainly voluntary
- → A national program like klima:aktiv can
 - → help to raise awareness for green skills,
 - → initiate trainings in agreements with partners,
 - → improve the quality of education and implementation



Lessons learned 2 programs for green skills/jobs/climate/energy

should be implemented on a high level (<u>interdepartmental</u>) should provide

- a structure for green skills (branches)
- Quality standards (environment, education)

Partnership can help to implement standards (contracts):

- training institutes (learning outcomes, certification, building standards)
- Companies (building/quality standards)
- Associations (support)
- Competence Partner (standards, label can raise attractiveness of life long learning)

Public relations: High credibility under the umbrella



Your key questions

- 1. What role should the social partners play in anticipating the labour market effects and lifelong learning needs associated with greening economies?
- → Go on in greening economy!
- 3. In what ways can models of social partnership be developed to further engage with training institutions and other centres of learning?
- → Integrative!
- 8. How can social partner initiatives be more effectively communicated and promoted to achieve ever greater levels of awareness and take-up?
- → Common standards!





DI Johannes Fechner,

johannes.fechner@17und4.at

17&4 Consulting Ltd

A-1060 Vienna, Mariahilferstr.89

T: +43 1 581 13 27

klima:aktiv training

www.bildung.klimaaktiv.at