

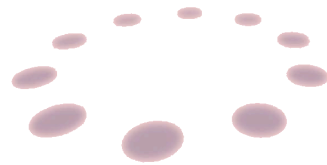
eceee 2007 Summer Study, June 4 – 9th, 2007, La Colle sur Loup

ACT LOCAL – in a European Wide Network

**e5 and the European Energy Award® - a Way to Realise
Permanent and Sustainable Energy-Efficiency Projects in
Communities**

Silke Mader, Austrian Energy Agency

forum european
energy award



AUSTRIAN ENERGY AGENCY

Background: climate protection

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- **Kyoto-Target for Austria**
minus 13 % CO₂-emissions until 2008-2012
- **Austrian impulse program “klima:aktiv”**
supports the measures of the Austrian Climate Strategy and includes 23 different programmes – the e5 programme is one of them
 - e5 is a **certification and quality management system** for towns and cities that are making a significant contribution to improve energy efficiency and increase the utilisation of renewable energies
 - the original idea was developed in Switzerland (“Energienstadt”) and in 1998 it was adopted and insignificantly modified by three Austrian provinces (Vorarlberg, Tirol and Salzburg)

e5 within the European Energy Award®

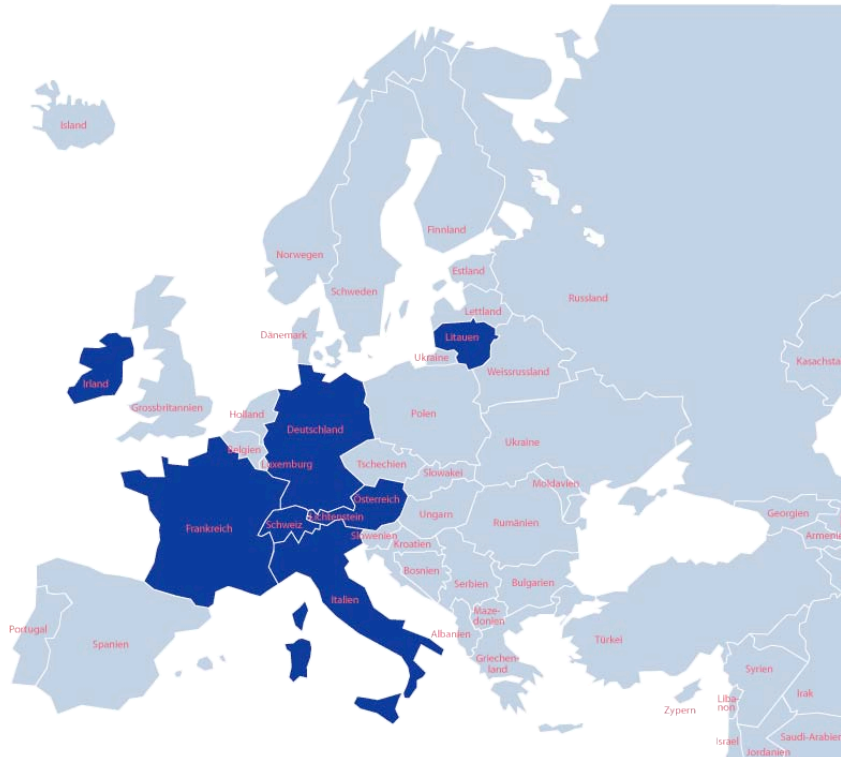
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- o in 2002 a harmonised programme called European Energy Award® was implemented by Austria (e5), Switzerland (Energienstadt), Germany and Poland



- o the EEA® combines the expertise and tools developed by Austria and Switzerland with the ideas of Germany, Ireland, France, Lithuania and Italy who joined the programme in 2003
- o the Austrian and Swiss partners decided to keep their well accepted and established brands e5 and Energienstadt, but all three brands (e5, Energienstadt, EEA®) use the same tools and the international umbrella organisation of the EEA® ensures uniformity of all programmes

European Energy Award® - EEA®



→ At the end of 2005 more than 300 communities (with more than 7 million citizens involved) in 7 countries (Ireland, Italy, France, Lithuania, Switzerland, Germany, Austria) participated in the programme.

→ 168 of them have already been awarded with the EEA®

→ Starting activities (initiated by the Balance-Project) in the Netherlands and Czech Republic



The EEA® - a programme for energy-efficient communities

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With the EEA® programme communities can make the step from single energy efficiency projects to a long term programme, which is target and action oriented.

The target of the EEA® is...

...the identification of energy saving potentials within a community and the realisation, documentation and evaluation of the saving measures.

For a successful implementation two factors are relevant:

- (1) a guided civil participation process in the municipality: local energy teams assist in managing the communication between citizens and relevant stakeholders
- (2) monitoring of success through regular audits which leads to the certification and award for energy related achievements: this gives all participating municipalities the chance of benchmarking in an European context and exchanging their experience

Continuous EEA® process

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→ municipality signs an agreement with a regional trustee
→ an energy team (representatives from the community administration, politicians and committed citizens) is formed
→ together with an EEA® advisor they work out an energy work programme

→ initial energy review: an analysis of the current status of the community assisted by EEA® tools
→ implementation of a work plan

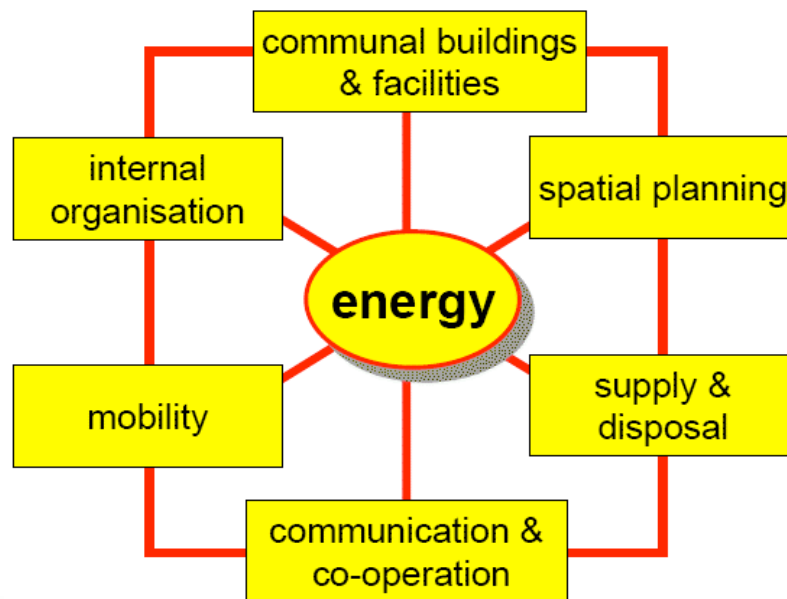
→ when the degree of implementation of energy measures is at the required level, the community can apply for certification through external audit

The EEA® catalogue: the heart of EEA®

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Structure of the catalogue:

6 fields of actions, 84 measures, from 1-10 points for each measure (maximal – possible – effective and planned points) – depending on the CO₂-relevance, total 500 points of benchmarking



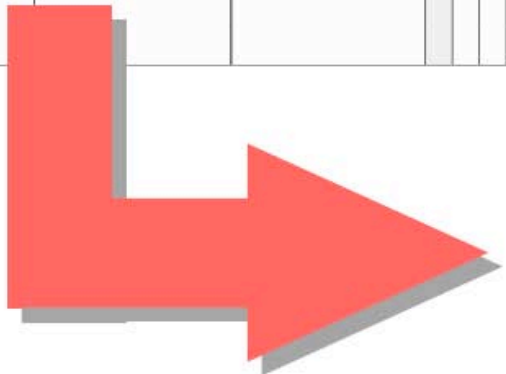
4 functions:

- checklist for the energy reviews
 - what has been done?
 - quality of transformation?
 - documentation of each project
- Catalyst for the process
- Aid for planning future activities
- Measurement tool for benchmarks, external audits and certification

The EEA® catalogue: the heart of EEA®

e5-catalogue of possible measures

e5		European Energy Award		Audit 2002		Ergebnis 01.06.02	
Kommunen für energiebewusste Gemeinden		European Energy Award		Audit Gemeinde Weissbach		Prüfungstermin 01.06.02	
2 Kommunale Gebäude, Anlagen		Umsatzqualität		Punkte		Punkte	
von 0 bis 100		Baujahr, Energieeffizienz		Baujahr, Energieeffizienz		Baujahr, Energieeffizienz	
Adressen, Fläche, Nutzung		Energieeffizienz		Energieeffizienz		Energieeffizienz	
2.1 Energie- und Wassermanagement							
2.1.1 Heizungsanlage, Analyse		Beschreibung/Art der Heizungsanlage (Vollkreis, Teilkreis, Öl, Gas, Holz, Fernwärme)		Brennstoff und Klassenwert angegeben?		0 0,0 2,0 10,0	
<ul style="list-style-type: none"> - Überprüfung der Heizungsanlage auf Vollkreis - Überprüfung der Heizungsanlage auf Teilkreis - Überprüfung des Ersatzes an Bauteilen (Anlagen) - Ermittlung des Energiepotenzials für Wärme - Ermittlung der Energieeffizienz von Wärme - Ermittlung der Energieeffizienz von Wärme - Ermittlung des Wärmeverbrauchs - Ermittlung des Wärmeverbrauchs - Ermittlung des Wärmeverbrauchs 							
2.1.2 Kontrolle, Betriebsführung		Beschreibung/Art der Heizungsanlage (Vollkreis, Teilkreis, Öl, Gas, Holz, Fernwärme)		Brennstoff und Klassenwert angegeben?		0 0,0 4,0 10,0	
<ul style="list-style-type: none"> - Überprüfung der Heizungsanlage auf Vollkreis - Überprüfung der Heizungsanlage auf Teilkreis - Überprüfung des Ersatzes an Bauteilen (Anlagen) - Ermittlung des Energiepotenzials für Wärme - Ermittlung der Energieeffizienz von Wärme - Ermittlung der Energieeffizienz von Wärme - Ermittlung des Wärmeverbrauchs - Ermittlung des Wärmeverbrauchs - Ermittlung des Wärmeverbrauchs 							



Targets 2006

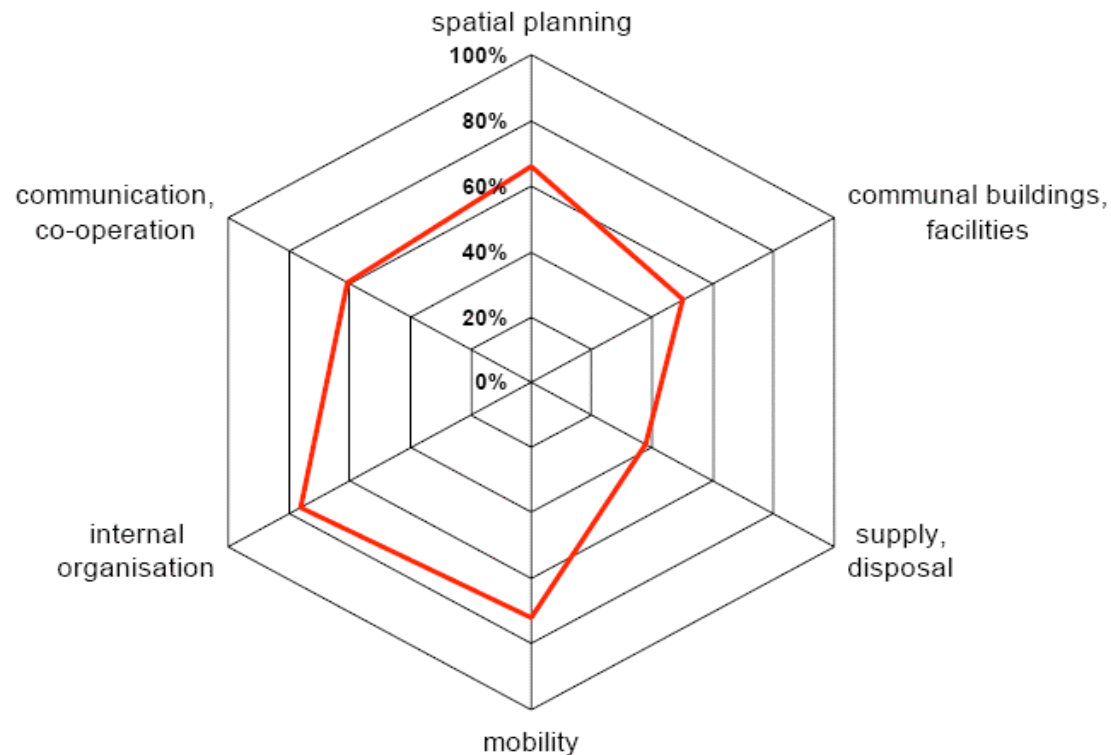
Targets 2005

Targets 2004

1. To develop energy-controlling
2. To complete analysis of communal buildings
3. To extend the cycle tracks
4. Regular reporting
5. Further education for caretaker

The energy profile

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→ percentage of realisation in each field of action

→ visualisation of strengths & weaknesses

→ audit result:

→ level of realisation in %

→ certification

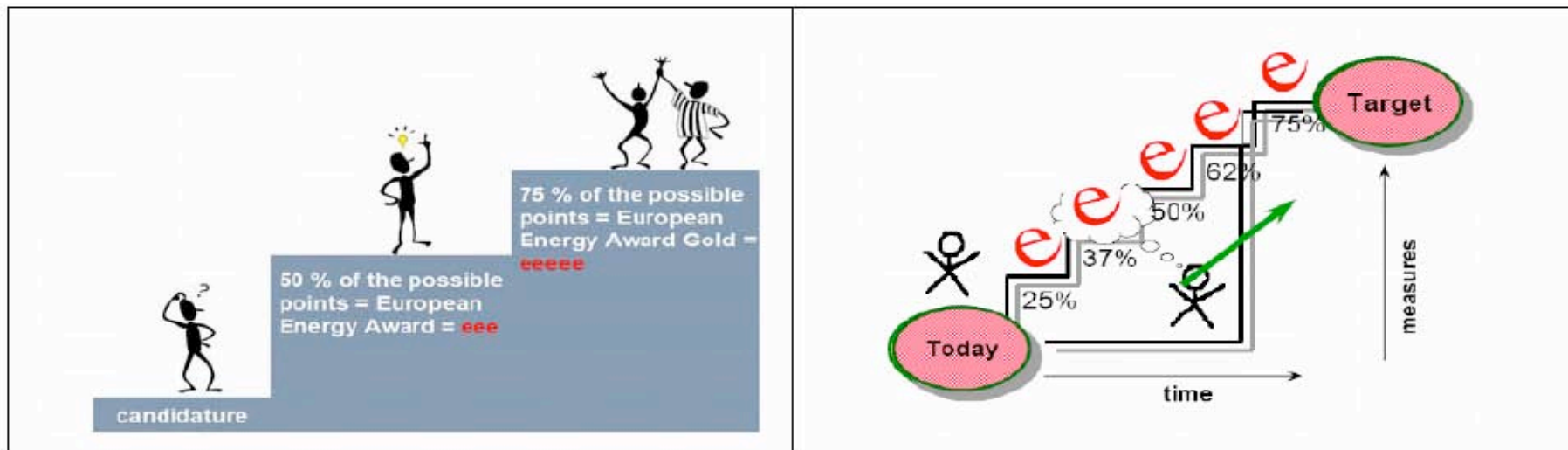
EEA® vs. e5 certification

EEA®:

50 % of all possible points → European Energy Award® Silver is awarded by the regional trustee
75 % of all possible points → European Energy Award® Gold is awarded by the European EEA® office

Austrian e5 programme:

For the first “e” 25 %, for “ee” 37 %, for “eee” (= EEA® Silver) 50 %, for “eeee” 62 % and for “eeeee” (= EEA® Gold) 75 % of all possible points have to be attained.



Benefits for participating towns

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- **step by step enhancement of energy-efficiency in combination with cost-savings**
- increasing and advancing the implementation of energy saving measures
- implementation of a sustainable energy-policy in combination with the performance of international contracts for climate protection
- **image of the community benefits through a responsible energy and climate policy**
- integrating the eea® into city marketing activities
- stimulation of investment especially on a local and regional level
- involvement of committed citizens and interest groups in energy policy planning and decision making process
- qualification of employees in municipal departments and support through the e5-network in planning and realising measures
- **access to the know-how and experience of leading energy communities and municipalities throughout Europe**
- enhancement of internal structures and processes of all energy-relevant categories in the community (planning – realisation – evaluation, systematic review, control of success)
- appropriate steering and controlling instrument for local energy policy
- benchmarking with other communities
- external, independent audit of achievements in the field of energy
- successful dissemination of “energy-activities“ through a European assessment and an award

european
energy award



Tasks for participating towns

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- o to stand up for realization of the program targets
- o to provide human and financial resources which ensures satisfying work of the energy-team
- o to pay an annual program-fee
- o participation in eea®-conferences and advanced trainings
- o to tell other interested eea® communities about their experience and know-how
- o regularly participation in an external audit (at least every 3 years)

Further Developments and Aims

The EU-project BALANCE

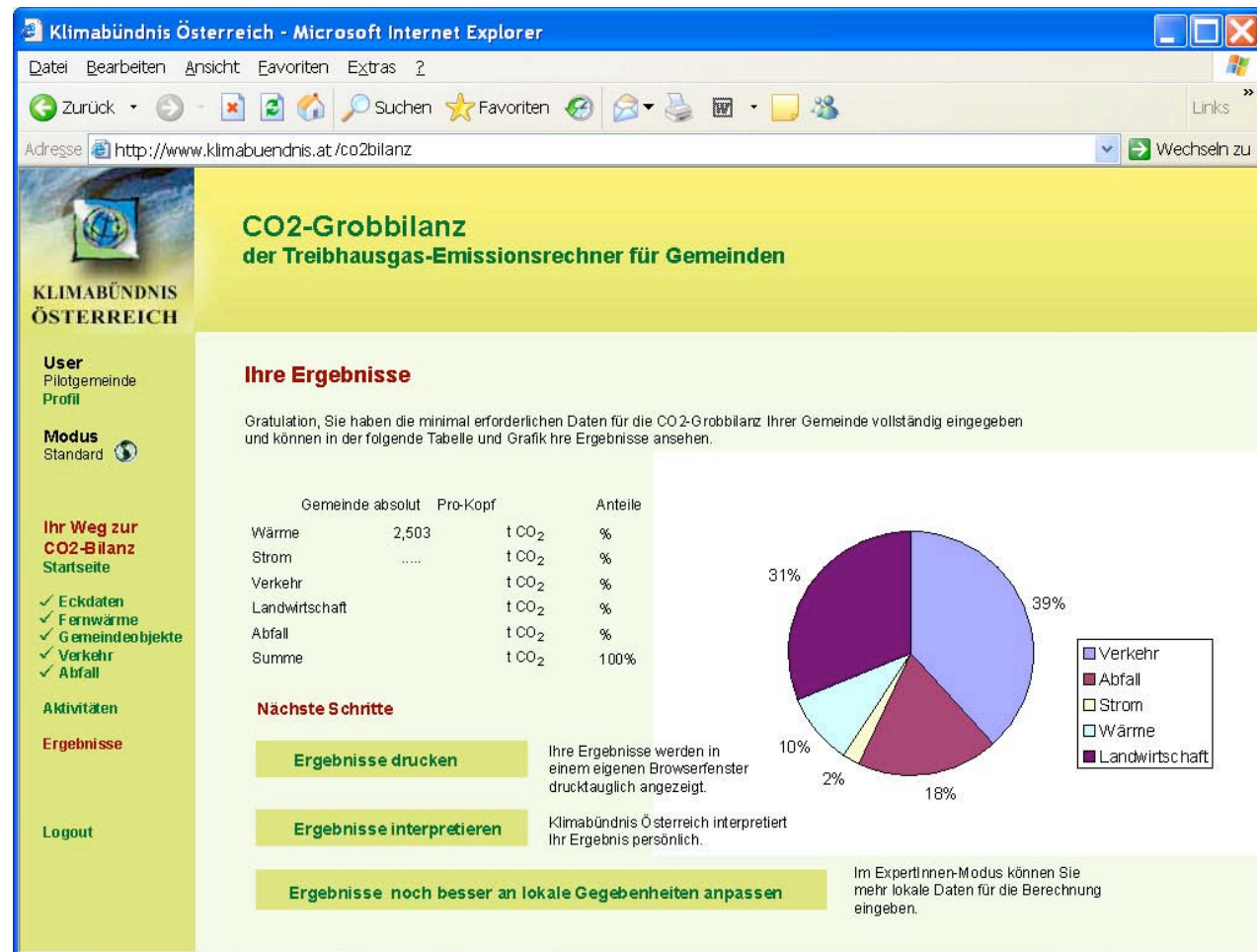
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- o Energy and CO₂ balancing tool on municipal level (top-down approach)
- o Estimating the energy and CO₂ savings of individual measures (bottom-up approach)
- o Implementing the EEA® in new countries
- o Schemes for voluntary agreements and CO₂ town twinning projects



BALANCE: Energy and CO₂ balancing tool on municipal level

- (1) Existing software tools available in Europe were checked with regard to their international transferability and costs.
- (2) Best fitting tool has been chosen for each country...
- (3) ...and will be tested in test-municipalities in each country.

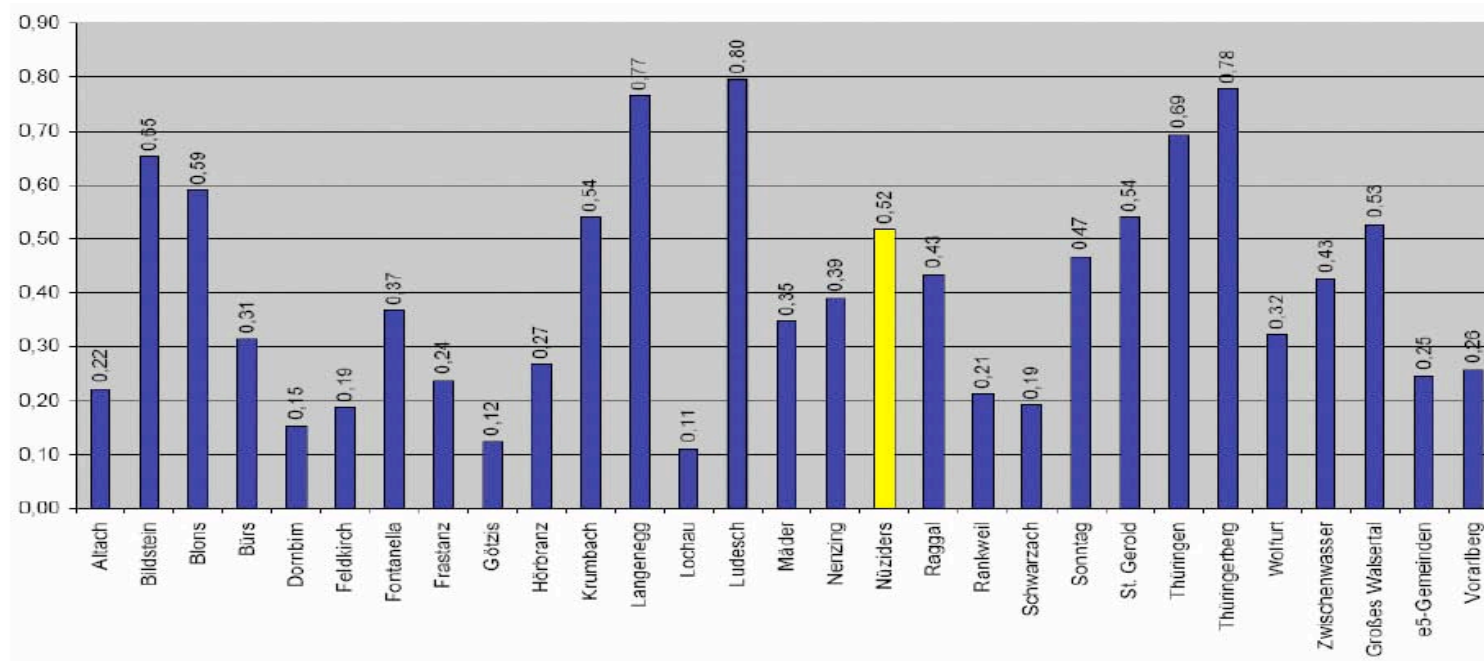


BALANCE: Estimating the energy and CO₂ savings of individual measures

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For monitoring energy policy efforts the project team chose 23 macro and micro indicators in the six areas of the assessment tool and developed a new tool. The indicators are directly connected with a calculation of energy and CO₂-savings.

Example: The solar collector surface in m² per capita



BALANCE: Implementing the EEA® in new countries

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The Netherlands and Czech Republic are currently working on the implementation of the **EEA®**.

Netherlands: model test with 3 municipalities have been made - first awarding ceremony in June!

Czech Republic: two municipalities are interested



BALANCE: schemes for voluntary agreements and CO₂ town twinning projects

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1-2 voluntary agreements and
1-2 CO₂-town twinning projects

...should be initiated until the end of this year!



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Thank you

for your attention!

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