

Klimaschutz- und
Energieagentur
Baden-Württemberg
GmbH



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Energy Efficient Cities and Communities: Economic development and climate protection

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JRC-Conference „How to build Smart Energy Regions“

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Sustainable economy?

Our current worldwide energy concept



„So leben wir, so leben wir, so leben wir alle Tage ...“



1. Avoiding non-essential energy consumption (convenience, luxury, leisure time)
2. Reduction of energy demand (insulation of buildings, standby-consumption, ...)
3. Higher efficiency (CHP, optimized maintenance, energy-saving lamps, ...)
4. Use of low-CO₂ energy carriers (coal -> fuel oil -> natural gas)
5. Use of renewables (solar, wind, hydro, biomass, geothermal energy)

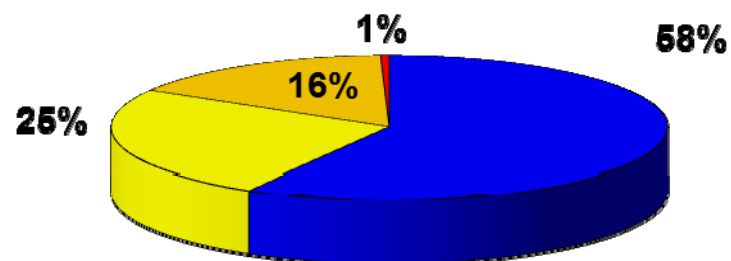




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The state energy agency since 1994

Shareholders:



- state of Baden-Württemberg
- VfEW
- GbR 3 (associations, organisations..)
- nature conservancy association

currently 30 employees within 6 departments

Work at the state's climate protection policy by supporting municipalities and enterprises in their efforts to

- save energy
- use energy efficiently
- use renewable energies





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A widespread portfolio

- Services for the state of BW (assisting grant programmes, development of EWärmeG, ...)
- State office for the european energy award (eea)
- State programme „Zukunft Altbau“ („a future for old homes“)
- Support of regional energy agencies
- Local climate protection concepts
- Energy concepts for stand-alone buildings, development areas, conversion areas
- Energy management for municipalities and enterprises
- Supporting biomass projects, TQM biomass heat plants
- GIS-based local heat concepts
- Management of third-party financing projects
- Projects with schools
- Dissemination of low energy / passive house standards
- Mobility concepts for municipalities
- Press relations and public relations





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Electricity? Yes, but don't forget about

Heating!

The German „**Energiewende**“ has mainly been discussed as a subject of the **electricity** industry.

But: The EEG has (nearly ...) solved the problem.



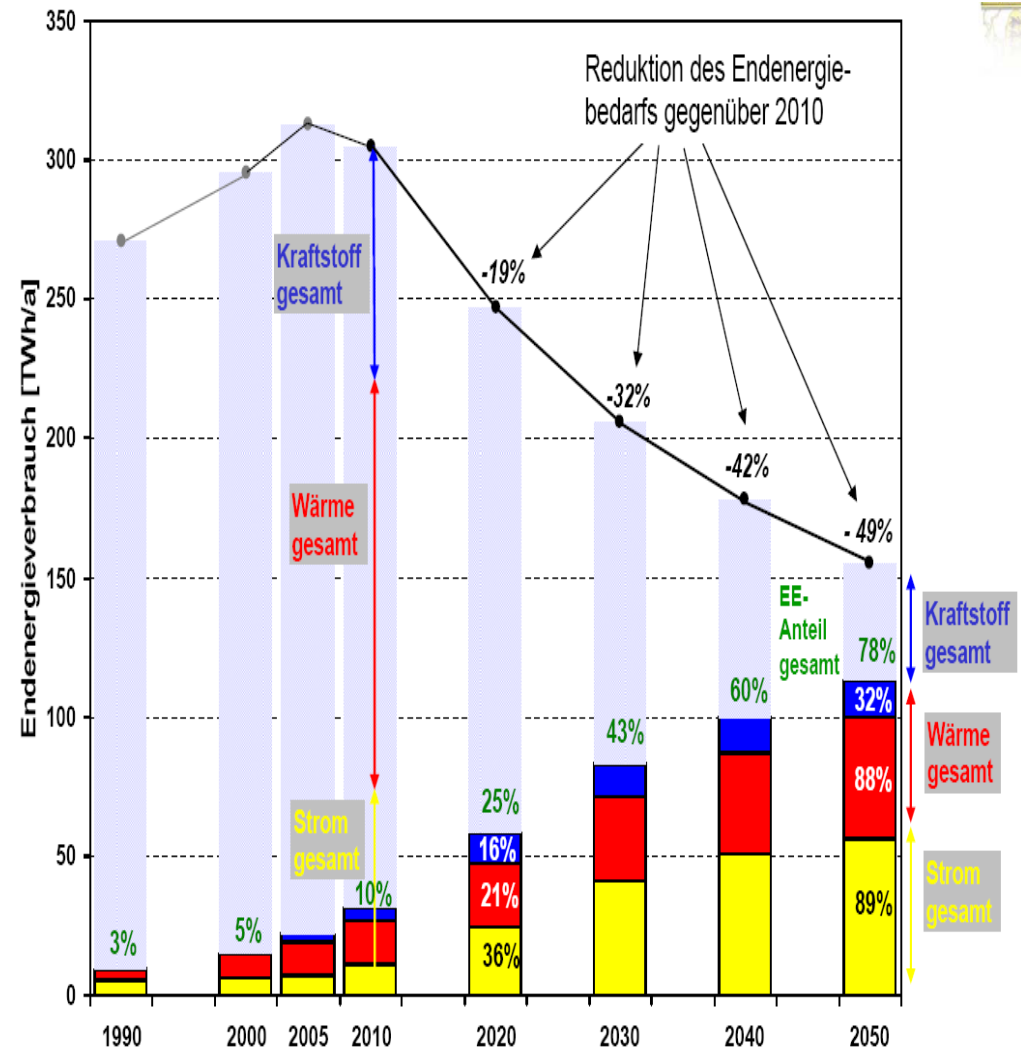
The **space heating** sector – in contrast – seems to be less complex and less smart.

But: It takes tough and hard long-term working (and investments of e. g. millions of house owners) to make progress.



50 - 80 - 90 strategy

- Reduction of energy consumption by 50 % until 2050
- Share of renewable energy 80 % until 2050
- Reduction of CO₂ emissions by 90 % until 2050



Quelle: ZSW, Dezember 2011



Climate protection law (KSG) and **Integrated energy and climate protection plan (IEKK)** with various elements especially aiming at systematic activities of territorial authorities:

- **Climate treaty** with local authorities
- Support of the **European energy award (eea)**
- **Guiding star energy efficiency**: Competition for counties
- Support of **regional energy agencies**
- **Klimaschutz-Plus**: Grant programme for renovation of non-residential public buildings favouring systematic approaches to climate protection
- **Klimaschutz mit System**: Competition for local flagship / innovative projects based on systematic approaches (based on EU funds EFRE)
- **Renewable heat act**: i. a. extension to non-residential buildings











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Example

Bonuses within KS-Plus grant programme

Within the Klimaschutz-Plus grant programme, bonuses are offered for systematic approaches of applicants to climate protection as are ...

- ... commitment on **climate treaty** 
- ... participation in the **eea** 
- ... **climate protection concepts** or employment of **climate protection manage** 
- ... certified eco-management and audit scheme (**EMAS**) 
- ... participation in competition **guiding star energy efficiency** 
- ... financial support of respective **regional energy agency** 



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Co-operation in the field of climate protection



(1) If the state fertilizes the ground ... ----->



(2) ... activities of local authorities (and other players) can grow.



(3) But on the local level, we need the bees!
(= regional energy agencies and other transmitters)



Municipalities can ...

- ... be **role model** or/and **player**:

political self-conception (overall concept), political commitments (e.g. climate alliance), participation in competitions, claiming of subsidies, award (eea), energy management (in own properties), european energy

- ... set the **framework**:

guidelines for urban and building planning / property sales / local heat, local climate protection concepts, potential analysis, mobility concepts, development of distinct projects (e. g. inner city restoration)

- ... be **service provider** und **motivator**:

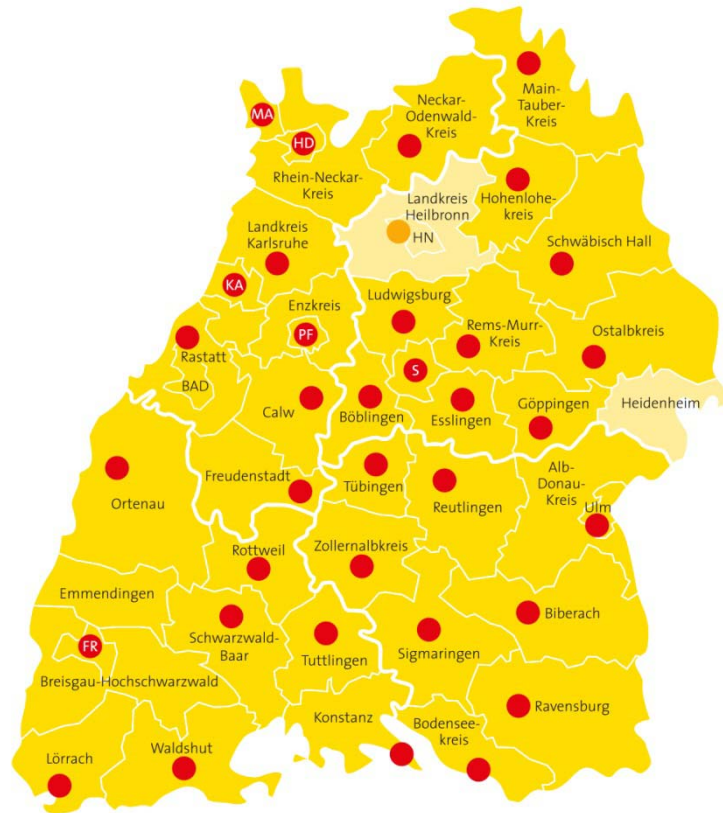
inform and motivate their citizens, players, stakeholders (public relations), co-operation with regional energy agency

- **give support and facilitate:**



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Network of regional energy agencies in Baden-Württemberg



Regionale Energieagenturen
in Baden-Württemberg

- bestehende Energieagenturen
- in Gründung / Gründung geplant
(Stand 11.2014)

Europe's most dense (nearly statewide) network of regional energy agencies

- ... has been funded by the state and
- ... is supported by KEA.

It offers ...

- ... consulting of house owners and SMEs,
- ... advice in funding issues,
- ... local networks of energy auditors,
- ... energy management for municipalities and enterprises, training of caretakers, ...
- ... services concerning eea,
- ... development of local energy / climate protection concepts, analysis of renewable energy potential
- ... realization of school projects and
- ... a lot of public relation activities.

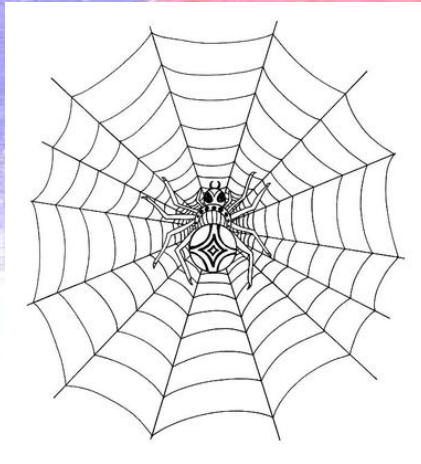


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Regional energy agencies Resources, position und targets

Indefeasible unique features:

**impartial – objective – firmly fixed to the region – (and of course)
professional**



**rea = the spider
within the network
of regional climate
protection activities**

Meta-targets:

Inform neutrally
Motivate with purpose
Reduce prejudices
Communicate benefits
Bring players together
Organise projects and processes
Pull the strings



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Regional energy agencies: Benefits for the region



The network of regional energy agencies effects ...

- higher investments in energy savings,
- higher value creation on the regional level,
- more competitive enterprises,
- multisided positiv regional development (higher quality of life, positive image, ...).

Map and link list of rea: www.kea-bw.de



Smart Energy Regions
(states, counties and municipalities)
should install, develop and support
regional energy agencies!

In which way?

- Political support: „We are working on the same targets.“
- Financial support: basic, assured and long-term

And: Let them develop and let them grow!





Appendix: Municipalities, don't forget about your **homework** !!!

To be honest and authentic, municipalities have to fulfil consequently their day-to-day homework (especially in their own buildings) in the form of ...

- energy management (monitoring and minimizing of energy consumption),
- projects with schools (win-win),
- information and motivation of citizens.

This requires tough, hard and busy working and does not appear to be very „smart“.



But: Here as well, regional energy agencies can give advice and support!





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Good luck on your further way!

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