

The German Quarter Concept

German Kreditanstalt für Wiederaufbau (KfW) started their program for “Energetic Refurbishment of Cities” five years ago. Content of this program is the creation of quarters inside cities, that will be refurbished in energetic, but also in social and technical relation. It is applicable in urban and rural areas. For instance, in South Eastern Europe, it is interesting for smaller rural county capitals.

The purpose of the program is to accelerate the change of energy towards renewable energies and to make towns places for a better living by saving energy costs and by improvement of the additional surrounding living conditions. The advantage of the “Quarter Concept” is the renewing of a closed area where design features can be combined with social actions to create a better surrounding for the inhabitants. A crucial vehicle for the energetic change is the use of a cogeneration of heat and electricity (CHP). Inside the quarter it is possible to realize a cross-link of the buildings. Inhabitants get the chance to obtain electricity that is generated in their own quarter. Our diagram shows the cross-sectoral demand and supply reasons for renewed energy solutions.



In addition to the technical support of the program, there is the information and education of the quarter inhabitants. Avoiding using energy, change towards renewable energies and help with filling in the forms for state grants are some parts of the energy consulting that is granted by state institutions or private providers. Spelleken Assoc. is developing such services with the county of Criuleni, in Moldova. Also social projects for a better life in the quarters can be rant-aided.

For our project development in South East Europe, the quarter concept has another relevance. Countries like Macedonia, Moldova, Serbia have a strong commitment to climate protection and reduction of CO₂, without being member of EU, yet. These countries need a smarter way to natural gas saving, special measures for quicker impact are welcome. The population should find a plus in individual comfort and economy, and the market players should find feasible projects for their own finance and amortization, reducing the monthly consumption for imported energy solutions. The technological background are always CHP fed with gas from biowaste or other intermodal solutions consisting of photovoltaic, heating pumps and others.

Due to the post-socialist infrastructure with relatively remote villages and quite modern urban district heating, there are two tasks for energy saving that we address as Spelleken Assoc.

1. to use the given energy plants and biowaste in the countryside, for the cheap production of electricity and heating, mainly for the grid and local sales of heating / refrigeration for new economic growth.

2. to refurbish quarters / district of larger towns for a drastic energy saving using cross-sector solutions like CHP for schools and factories, together, and other similar modern solutions. Such urban application can recover the heating network abandoned in times of individual heating.

Please send your project proposals to willing@spellekenassociates.de