

***Training on Energy Efficiency in Buildings  
of stakeholders in urban planning,  
construction and building***

***Organised by ECREEE***

**PRAIA, CABO VERDE, 9th-10th June 2014**

**SERA Sustainable Energy & Resources Availability**

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***How to deal with small buildings which are not included under the building permit procedure***

# ■ ■ Energy efficient buildings

## ■ ■ Small buildings I development towards energy efficiency

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## ■ ■ Energy efficiency in small buildings – challenges

### ■ ■ Exemption from building code | incremental construction

- > With regard to building regulations, there are often exemptions for small buildings (e.g. defined by area or volume). Therefore, a mandatory energy building code might not fully cover small buildings as long as they are not under the building permit procedure.
- > In rural areas, incremental construction is still a usual method of building houses; no consultation of architects.
- > However, it is necessary to introduce energy efficiency also to small and residential buildings in order to increase quality of life without causing additional costs for people.

## ■ ■ Energy efficiency in small buildings – solutions

### ■ ■ Exemption from building code | incremental construction

- > Affordability of energy services is an important aspect especially in rural areas, and energy efficiency is about improving the access to affordable energy services such as a comfortable indoor climate.
- > A compilation of model designs for sustainable construction of small buildings can serve as an alternative to mandatory legislation.
- > In future, this guideline could be developed towards a mandatory standard.
- > It is the objective to provide all relevant basic requirements for energy efficiency in small buildings well-arranged in one easy to understand document with many images. The focus is on the use of local materials and simple measures which respond to the specific climate conditions and do not cause additional costs, such as the choice of the correct building orientation.

# ■ ■ Energy efficiency in small buildings – solutions

## ■ ■ Developing model designs | suggested procedure

- > Development of a template to collect information on energy efficient building designs making use of local materials
- > Collection of information what is available: description of good practice examples with images of buildings by climate and availability of local materials
- > Creation of an internet platform to share the information among experts, public administrations, schools and universities and the interested public
- > Provision of basic general information with links to specific regional information (climate and location, regarding the availability of natural building materials)
- > Production of a printed version to be used for training and in areas without internet access, addressing the illiterate and near-illiterate (mainly drawings and images).

***Thank you for your attention!***

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