



# Energy efficiency and renewable energy in public buildings in SEE Countries

Promoting energy efficiency in SEE - Lessons learned in Kosovo, experiences and opportunities

Prishtina, 19th September 2013



## Why energy efficiency ?

- ❑ **Environment concept** :
  - Global warming, reduction of fuel resources, waste of energy... !
- ❑ **Economic Concept**:
  - New technologies available, efficient use of existing installations, ... maintenance,... etc.
- ❑ **Planning Concept**;
  - From designing phase, Constructing, refurbishing, tracking, monitoring, verification , use of fuel resources, ... etc.
- ❑ **Political concept**
  - Energy poverty, Energy sustainability, .... etc.



## **Promotion sustainable regional cooperation on Energy Efficiency**

The ORF-EE is a GIZ instrument aiming to improve Energy Efficiency in SEE through regional cooperation in the path towards EU integration;

Activities are focused through following intervention lines;

- **Public dialog initiative – PDI**
- **Monitoring and verification platform – MVP**
- **Network of Capital Cities**
- **HCD-Capacity building in Energy Auditing and Energy Management.**

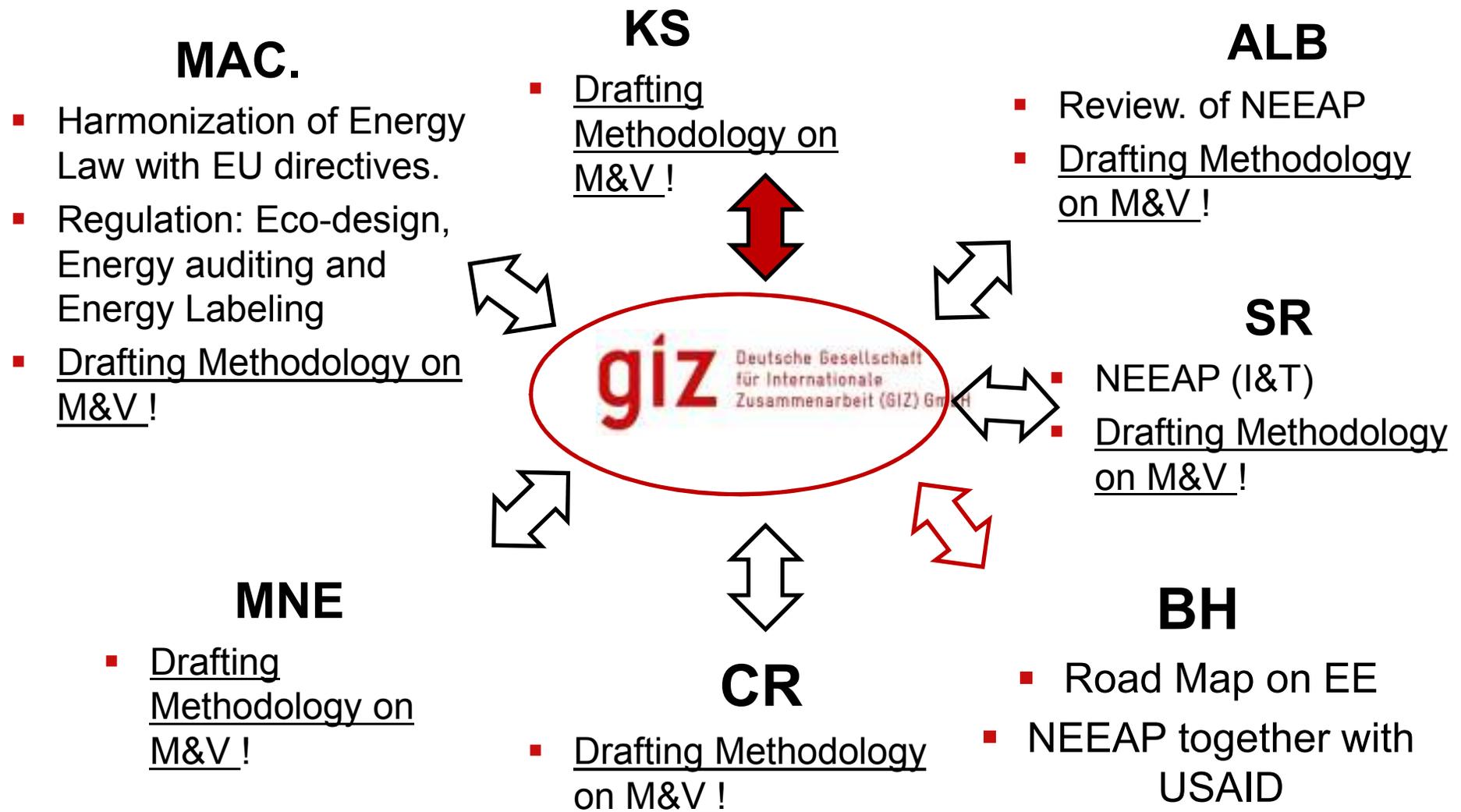


## Regional Approach





## Regional activities with central institutions from 2010





## Public dialog initiative - PDI



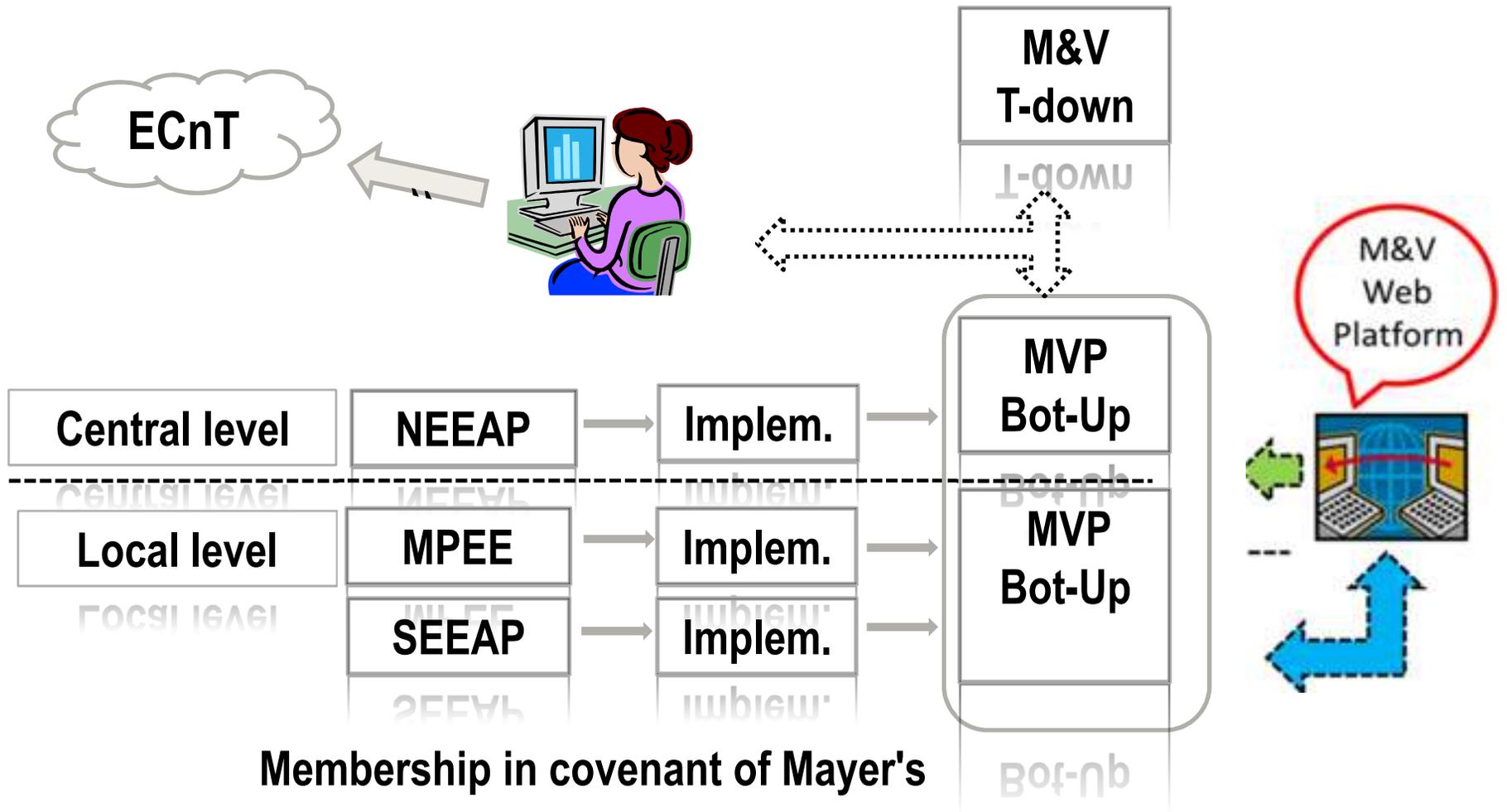
Increasing public debate and political dialogue through network of schools for political studies in SEE

- Strengthen the role of parliamentarians in the process of developing and monitoring implementation of energy policies.
- Inclusion of decision makers, local authorities, NGO-s, civil society, media and experts in establishing public debate in addressing policy implementation and identifying needs and challenges in energy Efficiency.





## Monitoring and verification platform



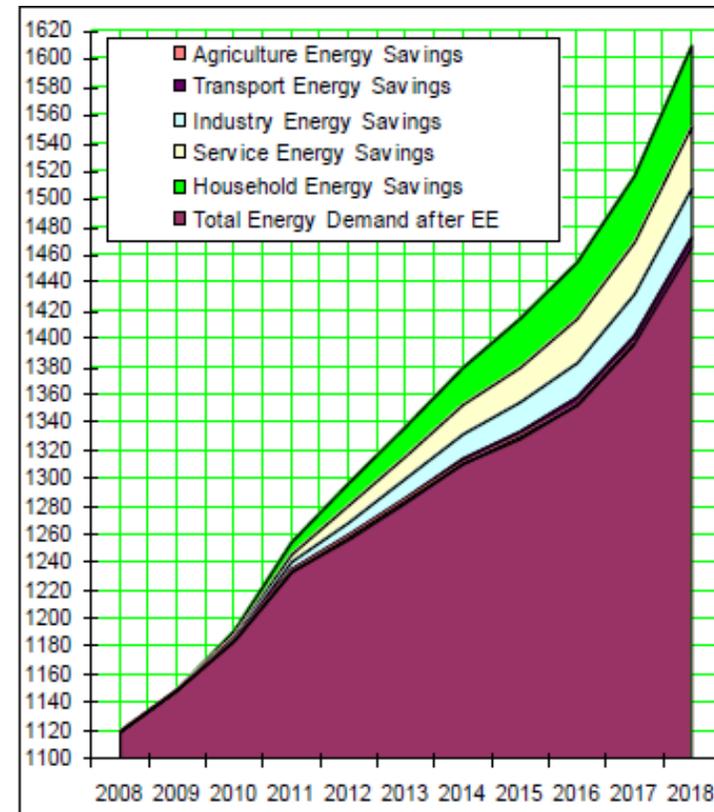
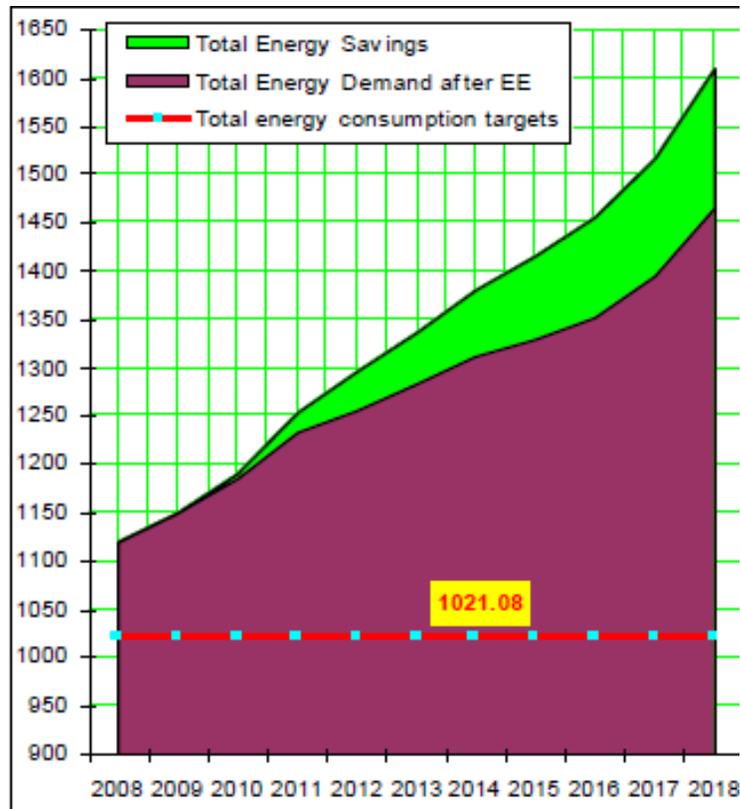


## **Network of Capital Cities**

- **Strengthening of cooperation between the capital cities in SEE ---  
- Capital cities have committed themselves to meet energy and climate change objectives – fulfilling the obligation of Covenant of Mayer's**
- **Support the implementation of Sustainable Energy Action Plans (SEAP)**
- **Members are city of Zagreb, Sarajevo, Podgorica, Skopje, and Tirana**
- **With Support from city of Freiburg from Germany as “role-model”.**



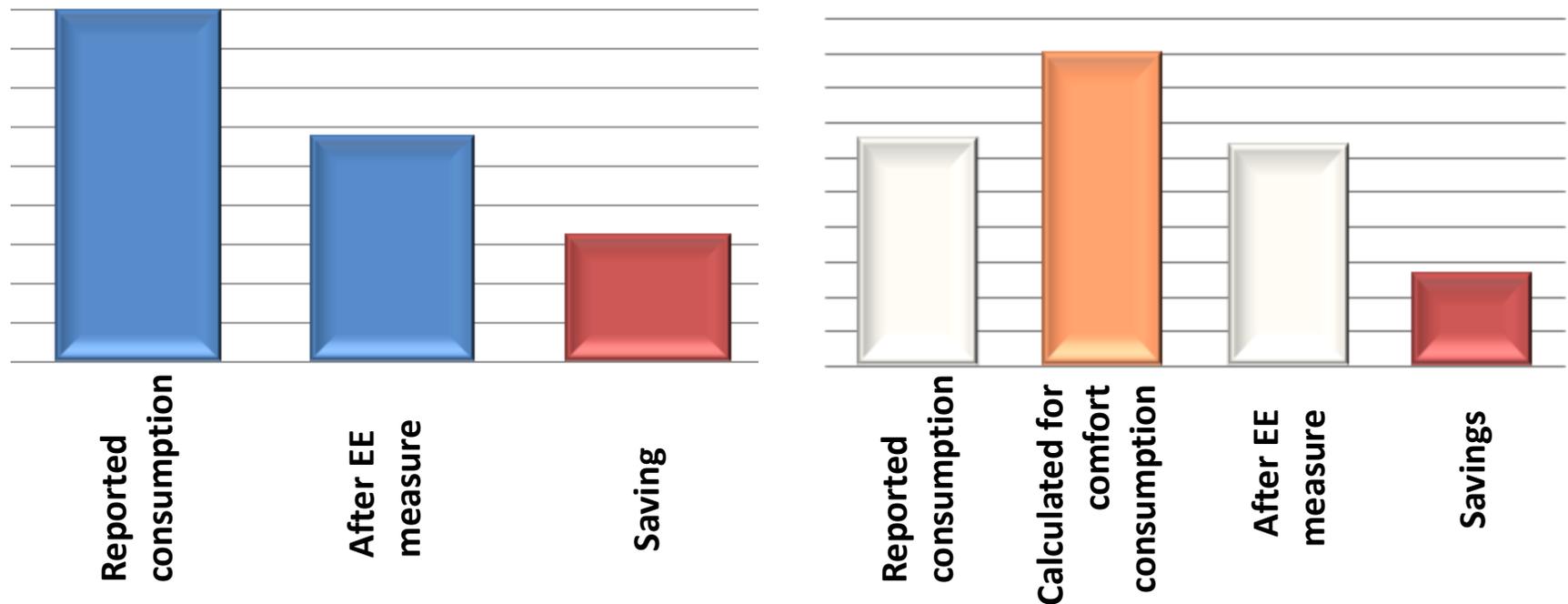
## EE in Kosovo context



National target to reduce energy consumption by  
by 9% until 2018



## Potentials for energy savings – energy auditing!

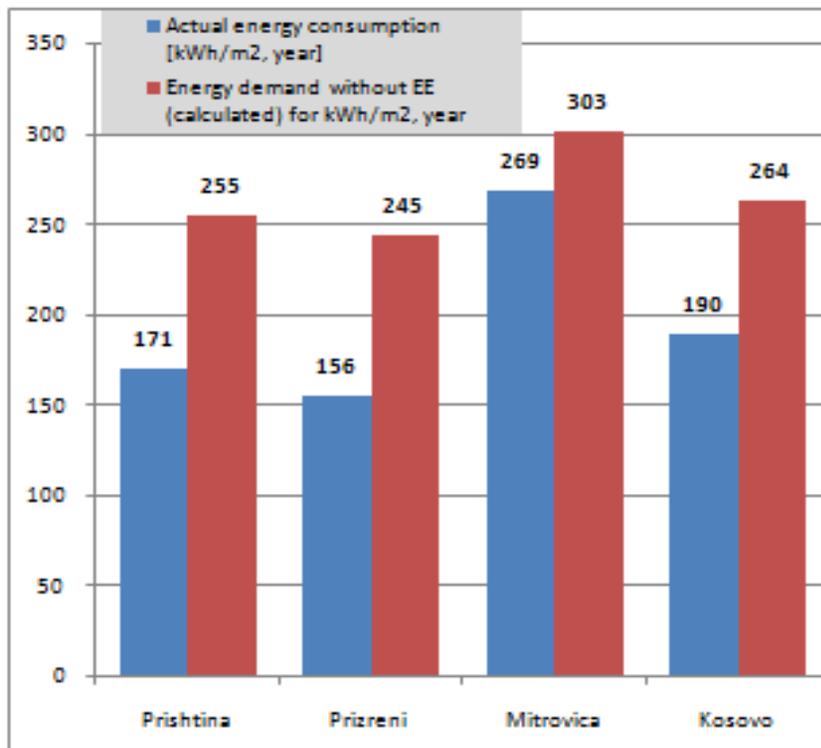


Annual specific energy consumption before implementation of EE measures > 240kWh/m<sup>2</sup> ann.

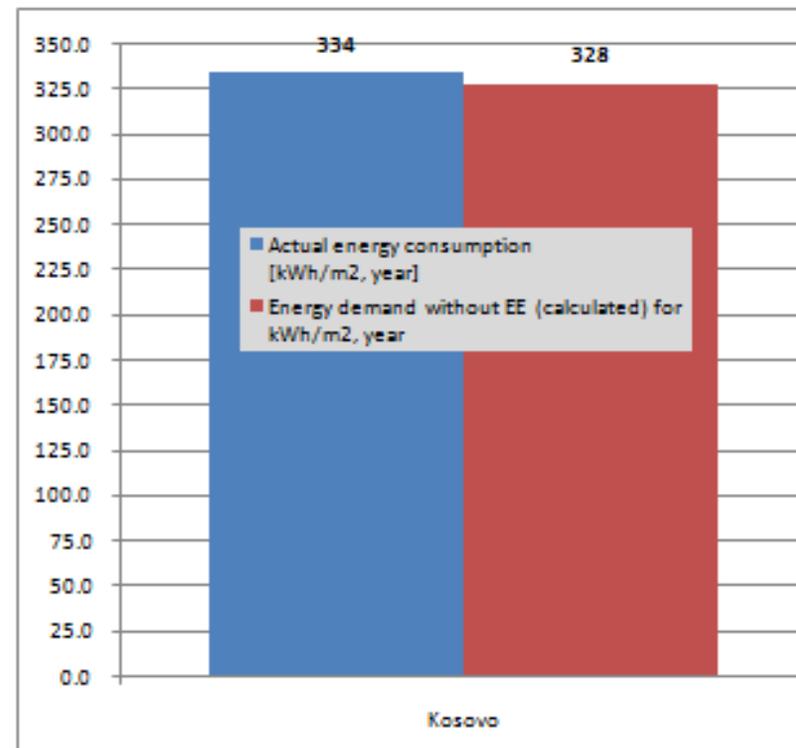


## Potentials for energy savings!

### Residential sector



### Public sector

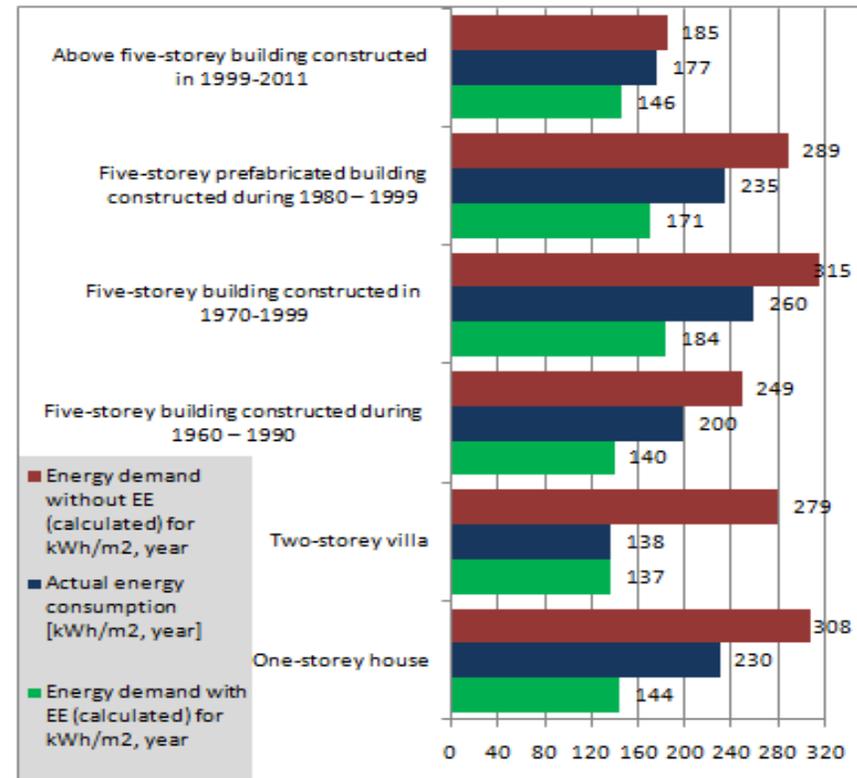
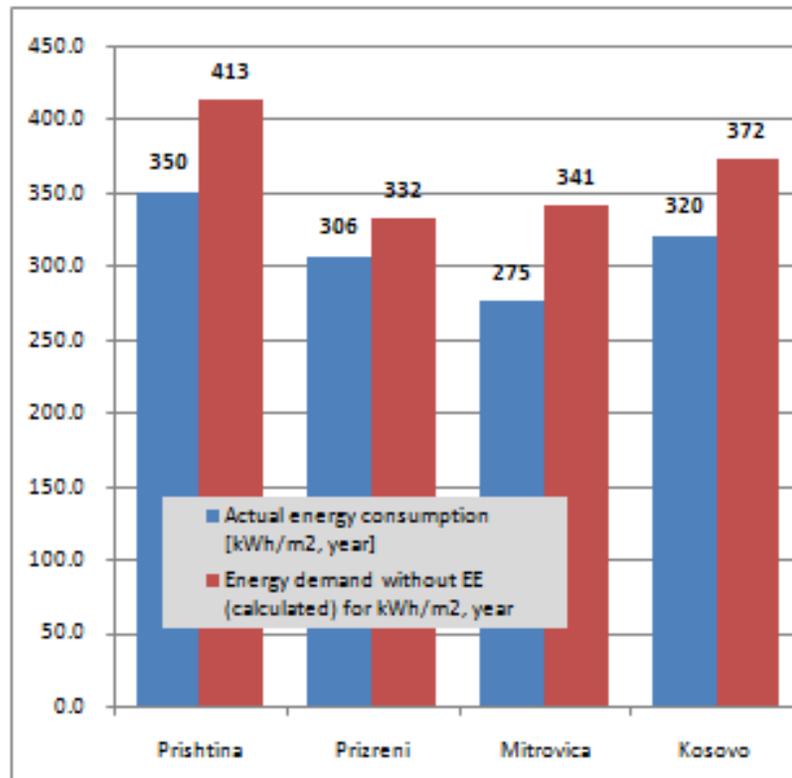


Data from; WB Study on National Building Energy Efficiency study for Kosovo



# Potentials for energy savings!

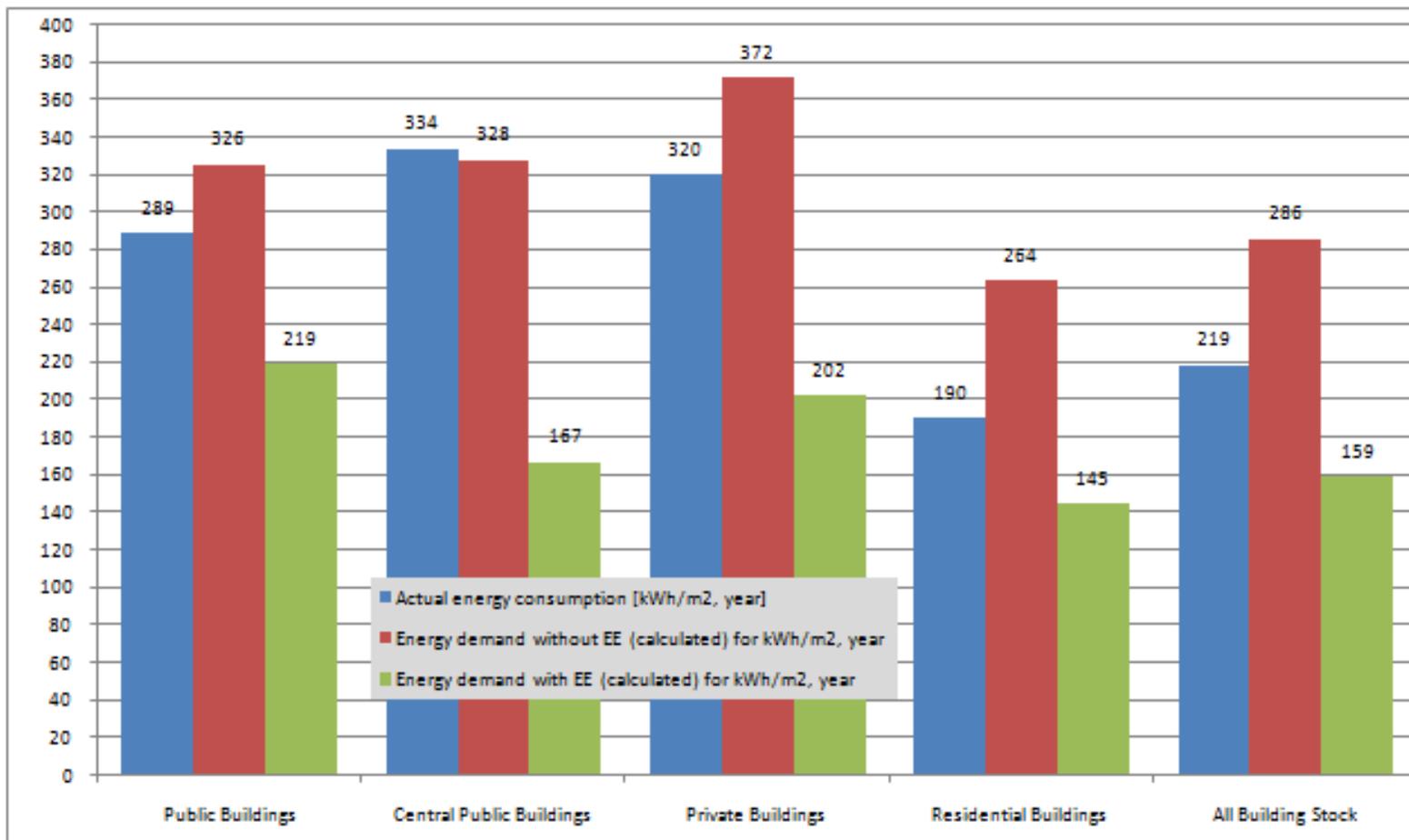
## Private and Commercial Building Sector





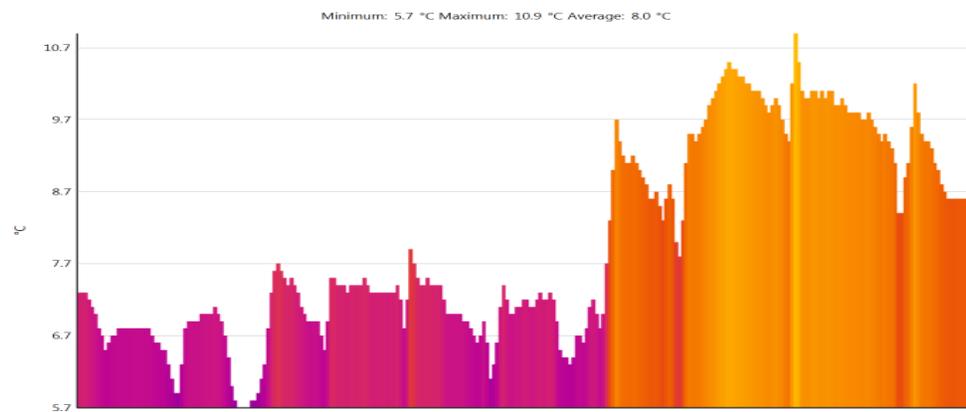
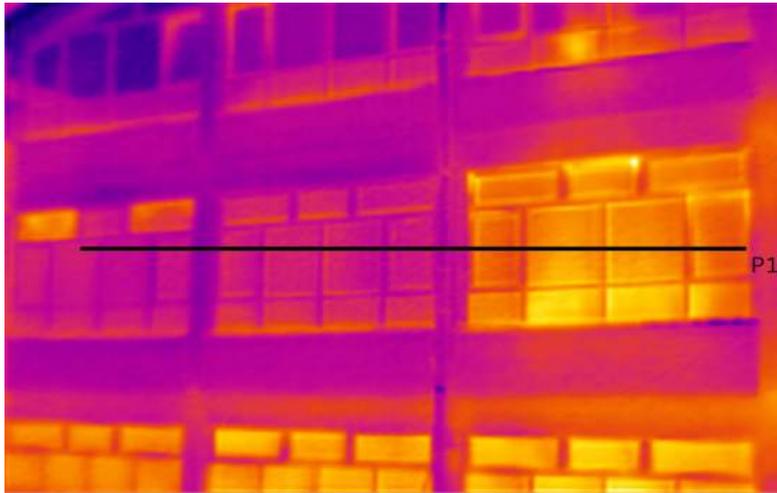
## Potentials for energy savings!

### All Building Stock



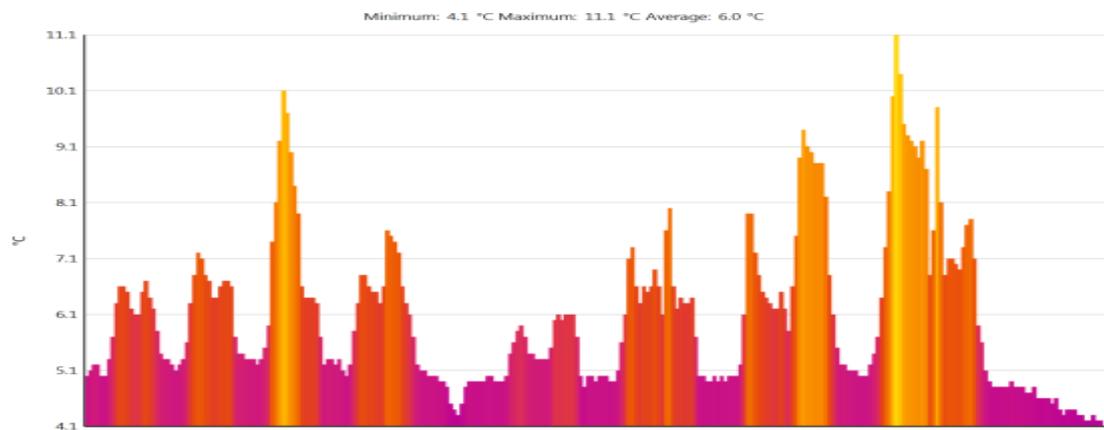


## Potentials for energy savings – Public building!



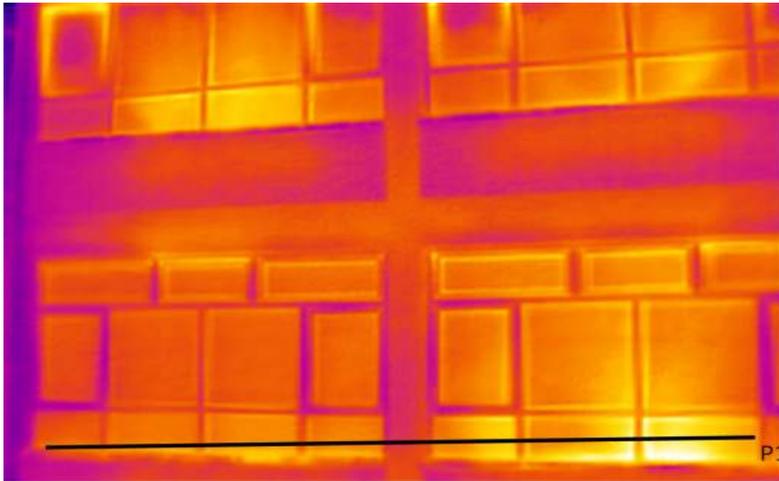


## Potentials for energy savings – Public building!





## Potentials for energy savings – Public Building!



Minimum: 7.6 °C Maximum: 13.1 °C Average: 10.4 °C





## What is needed! .

- Regional exchange- “know how” transfer, many good examples in the region!
  
- Commitment of decision-makers in supporting the process and activities related to policy development and policy implementation in energy efficiency and energy savings!
  
- Creation of mechanisms and appropriate structures as sustainable system for tracking, monitoring and reporting!
  
- Identification of consumption, and area with high saving potential as first step for allocating investment!
  
- Sustainable planning - including EE projects in process while preparing capital investment plans !



## **Experience through MMS bilateral cooperation SSPF 2007-2012**

- Relatively small projects with high operational cost!
- Generate savings with reasonable payback period!
- Require technical and financial capacities for implementation.  
while monitoring and verification still an issue!
- Have impact in reducing expenses in local budget, reduce utilization  
of natural resources, ... !
- Require specific financing instruments, financial autonomy!
- Clear ownership!
- Have impact in climate change!



## EE project implemented through SSPF







“ Every kWh saved by efficient use of energy it's equal with building new energy generation capacity to produce that energy”

“ High cost to build new energy generation plant justifies any form of investment, support an incentive for energy efficiency and energy savings”



## Questions?

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Thank you for your attention!

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