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MORE4NRG

PEER REVIEW ON ENERGY EXPERIENCE OF GABROVO

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PEER REVIEW METHODOLOGY

- A visit undertaken by a group of multinational experts to assess how region's energy policies work and make concrete recommendations for further improvements

- Energy peer reviews can focus on different aspects of the energy sector. Energy audits are conducted to:
 - Seek opportunities to reduce the amount of energy use in public buildings, public transport or SMEs
 - Draft effective energy strategies or energy action plans that will accurately depict rapidly changing trends in the energy market
 - Evaluate potential to produce energy from a particular resource

STEPS FOR A SUCCESSFUL ENERGY PEER REVIEW

- Definition of peer review objectives
- Establishment of a peer review team
- Involvement of various actors during the peer review
- Definition of criteria to be used during interviews and field visits
- Publication of the final report with input from the expert team
- Final report presented to political stakeholders



ADVANTAGES OF ENERGY PEER REVIEWS

- Confrontation of public and private sectors
- A very first step for future action in the field of energy
- Field visits = an opportunity to get first-hand knowledge regarding performance of a host region's energy sector
- Endorsement of the principle of solidarity

OBJECTIVES

Peer review objectives were defined upon a preliminary research and discussions. They are as follows:

- To assess the RES potential of Gabrovo region and more precisely solar potential;
- To assess the needs for energy efficiency measures at public and private buildings;
- To highlight the major steps in developing a Regional energy strategy/action plan towards enhancing the developments in the field of EE and RES adequate to the mandate of Gabrovo Regional administration;

PARTICIPANTS

LOCAL PARTICIPANTS:

Regional governor and experts from Regional administration, Representatives of the four municipalities in Gabrovo region, Technical university, representatives of National Park, Nature Park, private companies trading in solar energy equipment, consultants, the local central heating company, local NGOs, etc.

FOREIGN PARTICIPANTS:

10 experts from Lazio, Valencia, Vasternorrland and Georama



The input information that EPF and Gabrovo Region provided to the foreign partners beforehand included:

- Preliminary Questionnaire of AER for Host Regions – some difficulties gathering data about energy production and energy consumption
- Study On Legislative, Institutional And Market Framework For Fostering Energy Efficiency And Renewable Energy Sources Development In Gabrovo Region
- Survey on the solar potential of Gabrovo region – prepared especially for the peer-review

PEER REVIEW DAY BY DAY – 1ST DAY

- Round table “Potential of Gabrovo Region for Energy Efficiency and Renewable Energy”
- Presentations of good practices from Sweden, Italy, Spain and Western Greece, Presentation of the solar potential of Gabrovo region, Presentation of energy efficiency and renewable energy policies and practices of Municipalities in the region, Discussion on Gabrovo potential for EE and RES and possible measures

THE PEER-REVIEW BY DAYS – 2nd DAY

- Meeting with the Mayor of Gabrovo and experts from the municipality, visiting the EE Information Centre
- Field visit - Mathematical High School solar heating of the swimming pool



PEER REVIEW DAY BY DAY – 2nd DAY

- Field visit - Evrika Commerce – furniture company using waste biomass for production of heating
- Meeting at Technical University of Gabrovo – visiting a pilot 10kW photovoltaic installation; discussion about the types of photovoltaic systems; presenting a project for installing a wind power generator and conducting training on EE



THE PEER-REVIEW DAY BY DAY – 3rd DAY

- Field visit - STS Solar Company, visiting a real estate combining numerous RES technologies
- Field visit - Mechatronika LTD, an enterprise using drillings and thermo pumps for heating



PEER-REVIEW DAY BY DAY – 3rd DAY

Meeting With The Regional Governor

Practical advices given by the foreign energy experts:

- Use your solar potential
- Develop Regional Energy Agency
- Change credit policy and make your administrative procedures related to EE more simple
- Motivate more environment friendly behaviour

PEER REVIEW PROCESS

The peer review process as viewed by the International experts, the stages:

- Preliminary work with the host
- First hand contact and interviews with regional stakeholders
- Field visits and experiences
- Analysis
- Analysis of impressions
- Recommendations and wrap-up
- Written recommendations
- Follow-up and support to the implementation

FIRST HAND CONTACT AND IMPRESSIONS FROM GABROVO

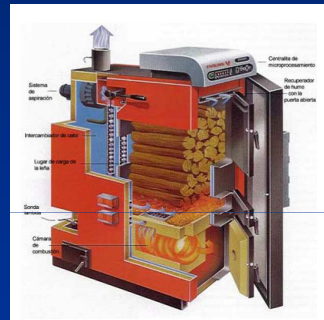
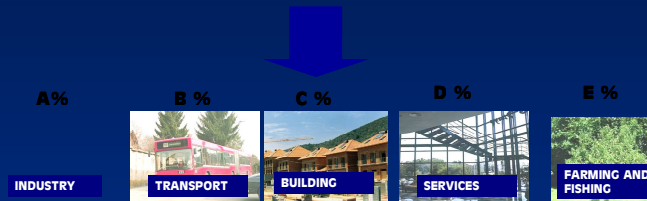
- Preliminary work on extensive information provided before visit
- Very good preliminary discussion with companies, authorities and academia
- Some general impressions:
 - High entrepreneurship spirit and good private initiatives.
 - Good potential for solar and biomass
 - High potential in training/education
 - Political commitment
- But some difficult non-technological barriers to overcome:
 - Lack of economical resources perception by the local stakeholders.
 - Difficult administrative burden and high associated cost (connection permits, land use, ...)



RECOMMENDATIONS

Monitor your energy consumption, inform and involve your people to foster (compete) energy efficiency (VLN)

Total consumption = ?



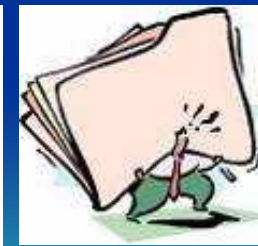
Promote the use of high efficiency appliances and renewal of the traditional ones.

E.G.

Use of high efficiency biomass boilers instead of traditional ones

Chimneys for heating or fossil fuel ones. (VLN)

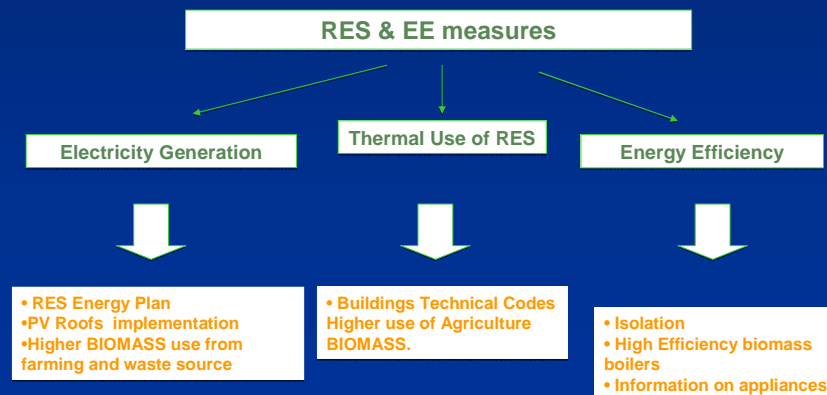
➤ Simplify administrative procedures (regional ones) and support fulfilling all the requirements (one-stop office, helping with national regulations). (LAZ)



RECOMMENDATIONS (II)

To promote the establishment of PPP in order to foster the implementation of RES (PV & ST systems) and energy services in public premises.
 E.G. Municipality + DSO + PV SME to exploit a PV plant in town hall's roofs easily. (VLC)

Creation of a local energy agency as a link among all relevant stakeholders and to support the implementation of the regional energy policy. (VLC)



To facilitate the use of local and external capitals jointly. It will be easier to gain trust if there is local money in the projects. Mechanism to benefit the joint use of local and foreign capital versus only local ones, obtaining a multiplication effect. (WGr)



SUPPORT MATERIAL (I)

RES & EE measures

Electricity Generation

Thermal Use of RES

Energy Efficiency

- RES Energy Plan
- PV Roofs implementation
- Higher BIOMASS use from farming and waste source

- Buildings Technical Codes
- Higher use of Agriculture BIOMASS.

- Isolation
- High Efficiency biomass boilers
- Information on appliances

SUPPORT MATERIAL II

SUCCESS FACTORS VALENCIA

- Administrative simplification
- Local authorities choose where the promoters can do projects and simplified administrative documents
- Involve promoters to compensate a local authorities (Energy plans, Industrial plans...)
- Working hand to hand with electrical companies (TSO)
- Know what resource it is possible to develop
- To support a promoters using publics funds
- Communication and Coordination among regions (RENOVE)
- Support the use of R&D Centres knowledge and resources by the companies



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**THANK YOU FOR YOUR
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