

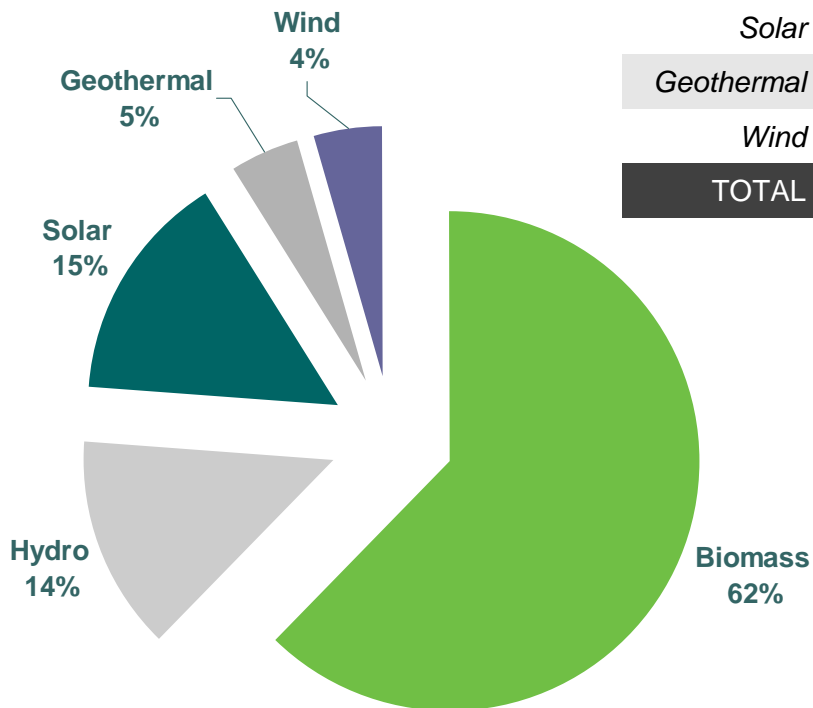


Preparing Cross Sectoral Action
Plan for Biomass Energy
- Experiences from Serbia -

Biomass – largest potential

Serbia's endowment of renewable energy resources is substantial - realization of these potentials require Government action

	Potentials (Mtoe)
<i>Biomass</i>	2.70
<i>Hydro</i>	0.60
<i>Solar</i>	0.60
<i>Geothermal</i>	0.20
<i>Wind</i>	0.20
TOTAL	4.30



Why do we need a biomass action plan?

- Many challenges for the stimulation of biomass use
- Slow growing investment in bioenergy
- Many known (and **unknown**) obstacles

The production of biomass for energy must not endanger the food supply and other local applications for biomass.

Where to start?

Market? Government? Society?

What should be there first: bioenergy infrastructure or biomass supply?

BAP process

Objectives of a BAP

- Identify the obstacles & formulate actions addressing the obstacles
- Create an investment climate for enabling biomass to contribute to the energy targets

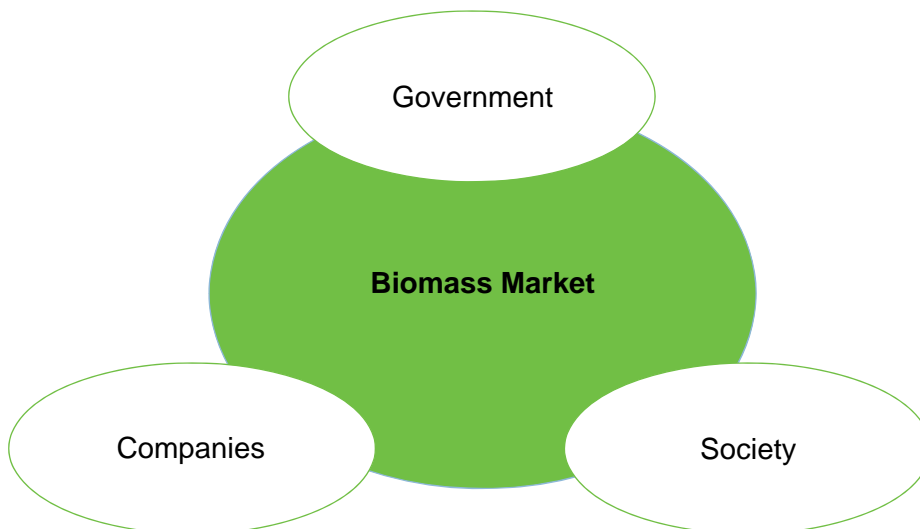
Required steps

- Realistic analysis of availability of biomass
- Setting working group
- Identification & clustering of problems

Creation of Working Group

Ministry of Mining and Energy
Ministry of Agriculture, Forestry and Water Management
Ministry of Environment and Spatial Planning
Ministry of Science and Technological Development
Ministry of Economy & Regional Development
Serbian Energy Efficiency Agency
Provincial Secretariat for Energy and Mineral Resources
Faculty of Forestry
Faculty of Mechanical Engineering
Public Enterprise for Forest Management Srbijašume
USAID Competitiveness Project
UNDP
NL Agency (former SenterNovem)

Stakeholders Analysis



SWOT ANALYSIS



Identified problems and actions

Security of feedstock supply and utilization

- Lack of the official definition of the terms
- Lack of the official calculation of biomass availability according the international recognized methodology
- Lack of transparent market
- Lack of technical standards including the list of raw materials and residues

Authorization procedures

- Lack of the procedure for licenses
- Lack of obligation for certification of appliances and biofuels

Communication

- Lack of public awareness
- Lack of professional association for biomass

Technology and Knowledge

- Lack of demonstration projects for biomass utilization
- Lack of participation in international projects
- Diversity and complexity of technologies
- Lack of the laboratories and equipment for R&D

Financial and Economic

- Lack of competitive micro credits
- Lack of efficient support mechanism
- Lack of utilization of available funds and financial resources for development of biomass sector

Implementation and management actions

- Formation of the coordinating body for BAP realization

ACTION



RESPONSIBILITY



DEADLINE



Identified Projects

- Harmonization of Serbian technical standards on biomass and waste with EU standards
- Refuel – assessment of biomass availability according to international methodology
- Development of a policy for long term biomass supply
- Pre-feasibility study of wood residue collection from forestry in Serbia
- Development of sustainable cities in Serbia
- Development of a communication strategy for renewable energy in Serbia
- Trainings for submitting successful project proposals to obtain EU funds
- Biomass demonstration projects according to EU best practices
- Development of a manual (guidelines) for applications for bank support – best practices



THANK YOU FOR YOUR ATTENTION!

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