The experience of expanding the use of modern biomass in Republic of Moldova
KEY ENERGY FIGURES
ENERGY CONSUMPTION BREAKDOWN /2016 y./

Gross Inland Consumption
- 2.796 ktoe
  - Electricity: 290 ktoe (10.4%)
  - Biomass: 698 ktoe (25.0%)
  - Oil: 896 ktoe (32.0%)
  - Natural gas: 837 ktoe (30.0%)
  - Coal: 25 ktoe (2.6%)

Final Energy Consumption
- 2.525 ktoe
  - Industry: 1257 ktoe (49.8%)
  - Transport: 717 ktoe (28.4%)
  - Residential: 268 ktoe (10.6%)
  - Public s. & services: 80 ktoe (3.1%)
  - Agriculture: 203 ktoe (8.1%)

- Import

- Mtep

- kt

- oe
BIOMASS USE
SUPPORTING MECHANISMS
Biomass market supporting mechanisms
production and use of biomass for H&C-RES

Undertaken ”FISCAL /FINANCIAL” activities:

• reduced VAT rate from 20% to 8% for the biomass raw material, solid biofuels and heat produced from biomass

• use of Public Private Partnership model aiming at establishing a public heating service based on solid biomass resources

• use of ”soft loans” financial tool for supporting the local biomass industry
Undertaken “TECHNICAL” activities:

• co-financing, institutionalizing and accreditation of a solid biofuels testing laboratory

• installation of heat meters in public institutions heated by solid biomass

• „Aggressive” promotion of the biomass / solid biomass use and high-efficiency technologies
Regulation on solid biofuels
main provisions

• Incorporates 37 European standards on solid biofuels which were adopted by national authorities;

• Defines 12 types of solid biofuels;

• Establishes 12 quality criteria for all types of biofuels – physical and chemical properties

• Assigns the Agency for Consumers Rights Protection and Market Surveillance as the state body responsible for the sector
Moldova Energy and Biomass Project

Contribute to a more secure, competitive and sustainable energy production out of biomass, the most viable and readily available local source of renewable energy in the Republic of Moldova
4 Well Thought Components:

- Generate demand
- Create offer
- Develop capacities & Educate
- Communicate & Change
Public institutions switched to green energy:

- 249 schools, kindergartens, community centers, hospitals have modern biomass heating systems
- 48 Solar Hot Water Systems installed in kindergartens and hospitals
- 194,000 persons benefit from securely supplied and locally produced energy
- Over 600 new jobs established in communities: biomass boilers operators, teachers
- 40,000 tons of CO2 emissions annually reduced
- Investments: > 13 million EUR, EU funds
Households and microenterprises switched to green energy:

- Over 1000 families and microenterprises heat their premises with green energy thanks to the subsidy program
- Subsidies up to 1.300 EUR from EU funds
Biomass boilers production:
• 30 national companies locally assemble or manufacture biomass boilers;
• 150 new jobs created
• 150 people trained to assemble biomass boilers;

Biofuel production:
• 35 biofuel production businesses launched
• 100 new jobs created with direct project support
• Leasing mechanism: 1 MEUR (0% VAT, profit, commission)
• Other new 70 biofuel production businesses launched independently

Biofuel quality:
• First testing laboratory for physical and chemical parameters of biofuels received
• Quality standards developed for biofuels
Public Private Partnerships for the provision of bioenergy services:

- Piloted in 1 district & extended in other 2
- Maintenance, storage, operation costs covered by the private partner
- Local authorities pay only for supplied energy
Trainings:

• 9,000 project beneficiaries trained (local public authorities, mayors, managers of institutions, operators, entrepreneurs)

• First training center for biomass boiler operators opened

• Biomass Boilers Operators & Foresters specialized in energy plants: new course launched in vocational schools
THANK YOU!
HOW TO MAKE A CHANGE IN 7 YEARS?

- Legal framework improvement (incl. quality standards);
- Better quality supervision and control on the market;
- Provision of financial, fiscal and other incentives (by case);
- Behavior change communication, not only information;
- Video, printed, web, social media communication, public events;
- Local green energy ambassadors;
- Media trainings & media tours;