



POLICY CHALLENGES IN RENEWABLE ENERGY AND ENERGY EFFICIENCY

STATUS AND CHALLENGES IMPLEMENTING THE RENEWABLE DIRECTIVE 2009/28/EC IN LITHUANIA

VACLOVAS MIŠKINIS

**LITHUANIAN ENERGY INSTITUTE
TALLINN, 2012, OCTOBER 18**



Presentation plan

- **Introduction;**
- **Major energy policy documents;**
- **Current status in use of RES;**
- **National support schemes;**
- **Objectives of the RES deployment in NREAC;**
- **Expected contribution of RES in the gross final consumption.**

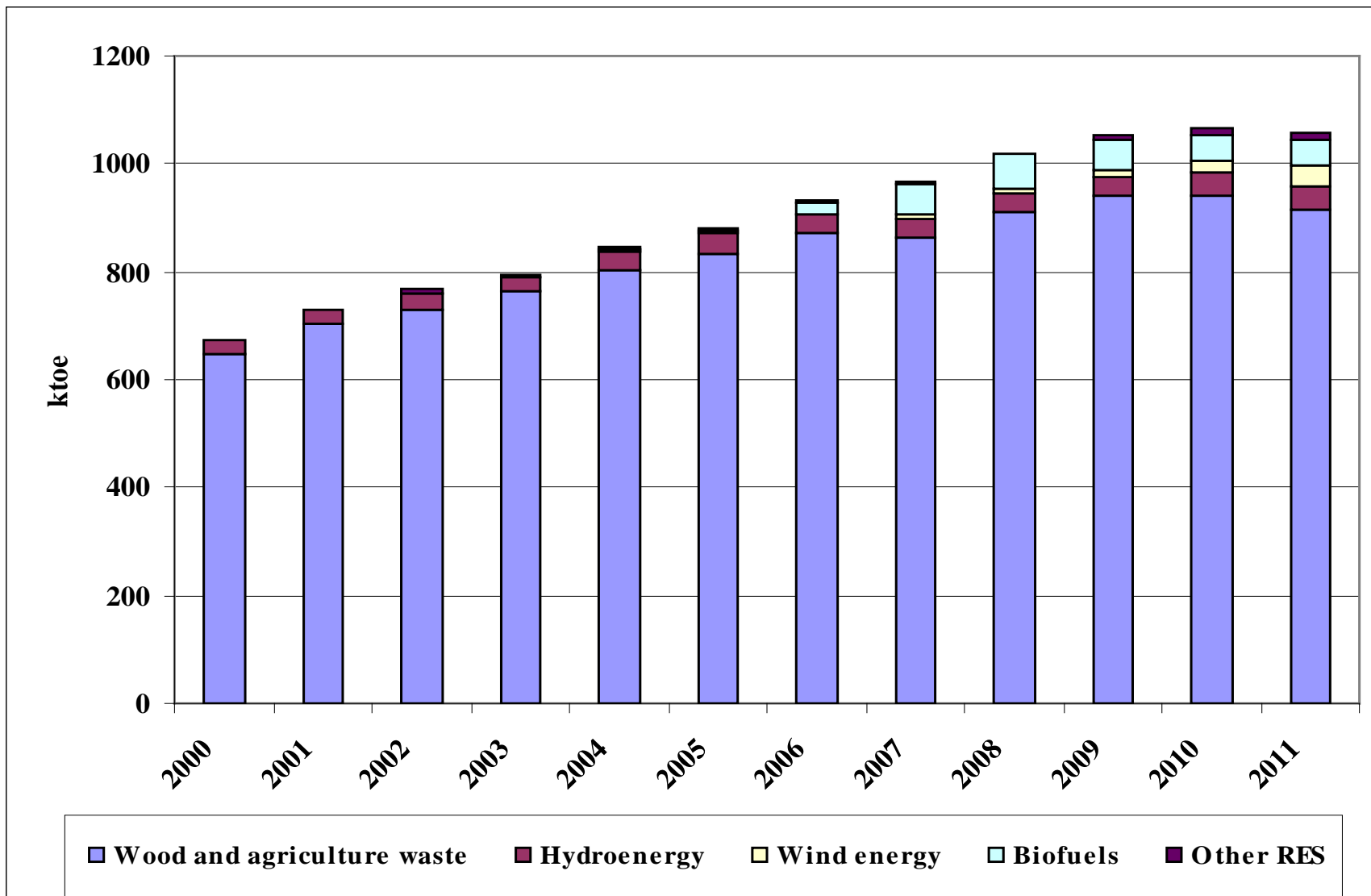


MAJOR ENERGY POLICY DOCUMENTS

- **The Law on Energy;**
- **The Law on Electricity;**
- **The Law on Heat Energy**
- **The National Renewable Energy Strategy;**
- **The National Renewable Energy Action Plan;**
- **The Law on Renewable Energy (approved by Parliament in 2011);**
- **The National Energy Independence Strategy (approved by Parliament in 2012).**

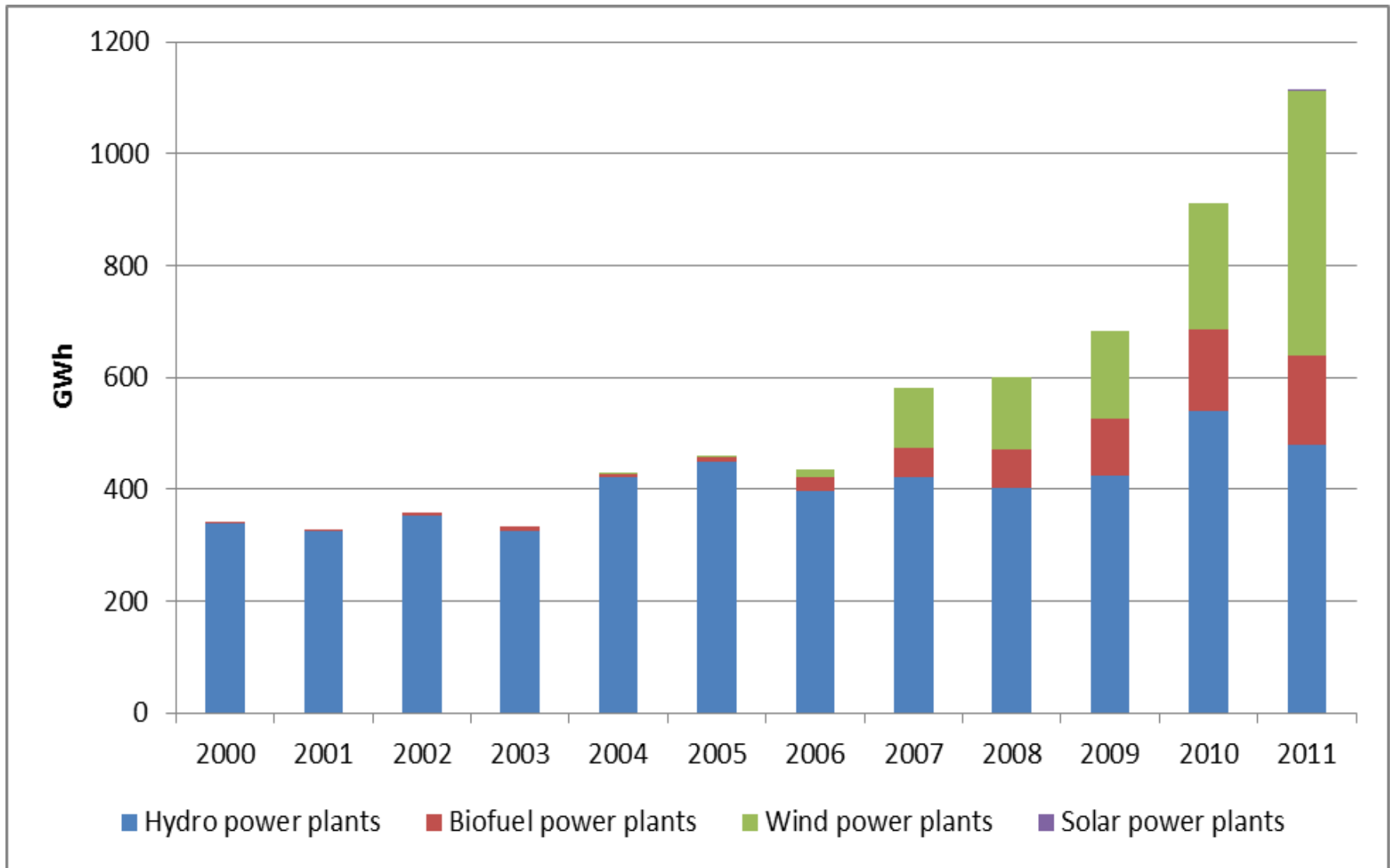


CHANGES IN CONSUMPTION OF RENEWABLES





ELECTRICITY PRODUCTION FROM RENEWABLES





CONTRIBUTION FROM RENEWABLE SOURCES

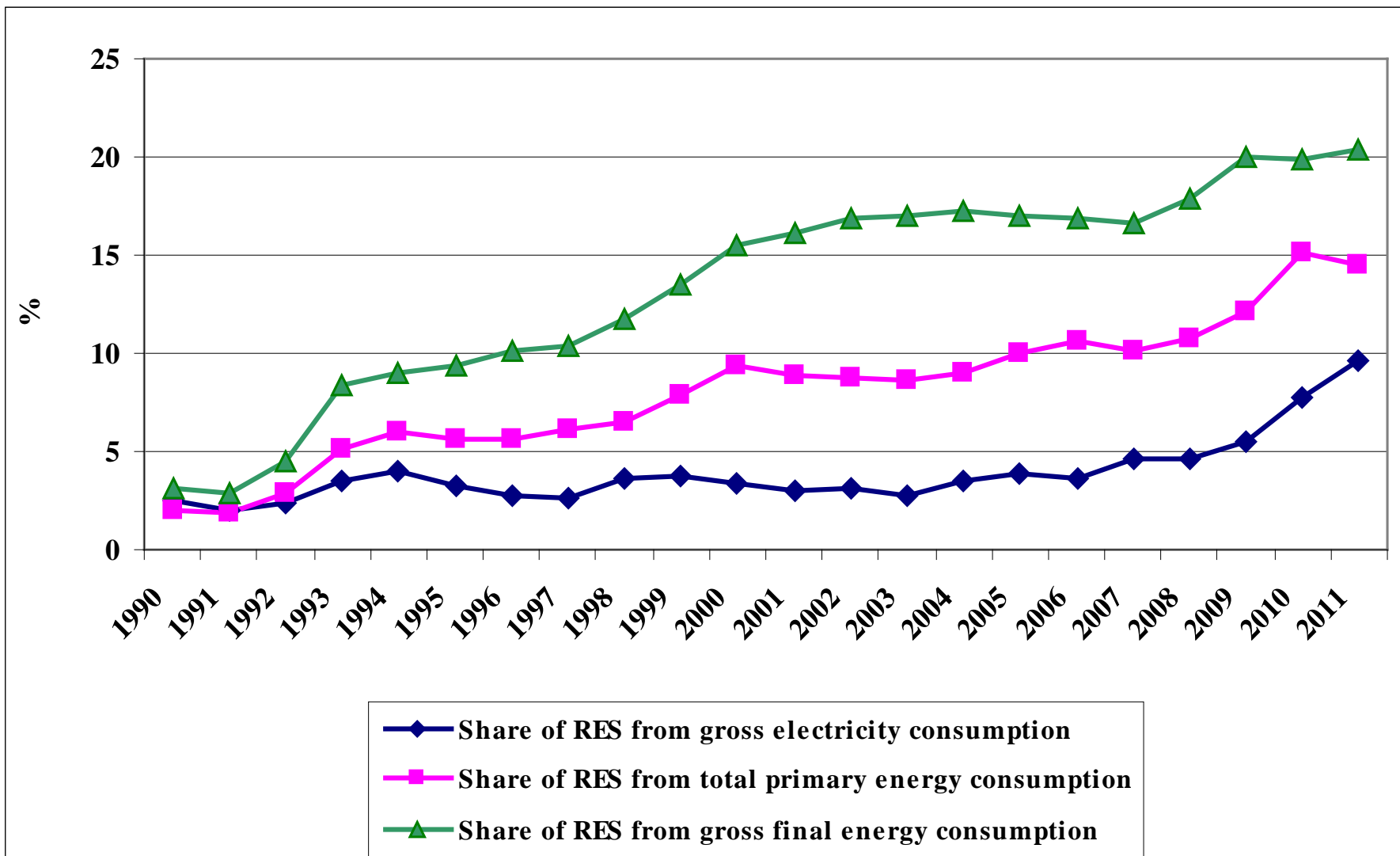
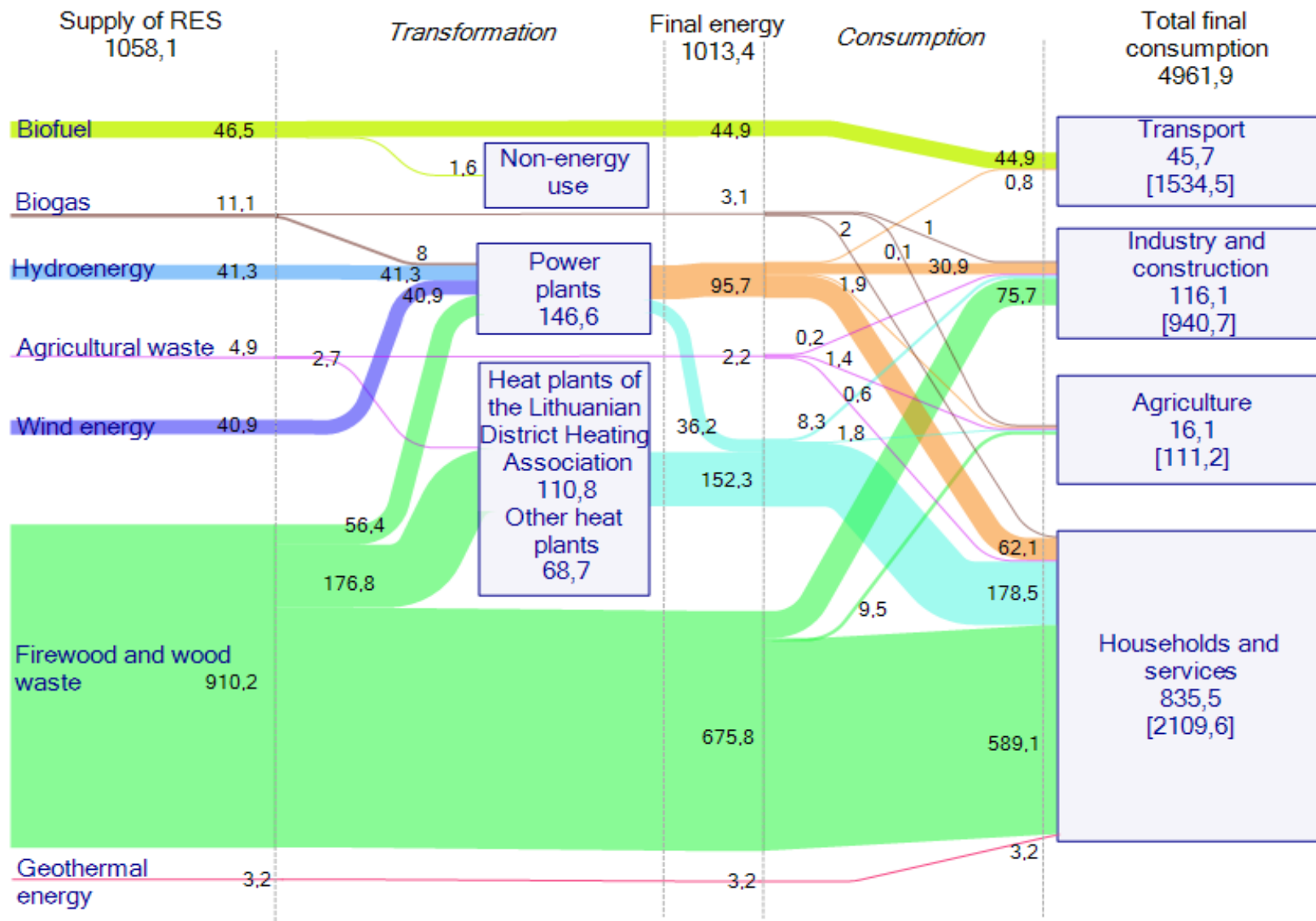




DIAGRAM OF RENEWABLE ENERGY SOURCES FLOWS IN 2011, ktoe





NATIONAL SUPPORT MEASURES

- **Feed-in tariffs;**
- **Priority in purchasing energy generated from RES;**
- **Compensation of grid connection cost;**
- **Priority of dispatch for energy generated from RES;**
- **Removal of responsibility for balancing and reservation;**
- **Requirements for mandatory production and consumption of RES;**
- **Support for production of liquid biofuels;**
- **Investment support for use RES technologies.**



MEASURES FOR SUPPORT OF ELECTRICITY GENERATION

For generators up to 30 kW of installed capacity:

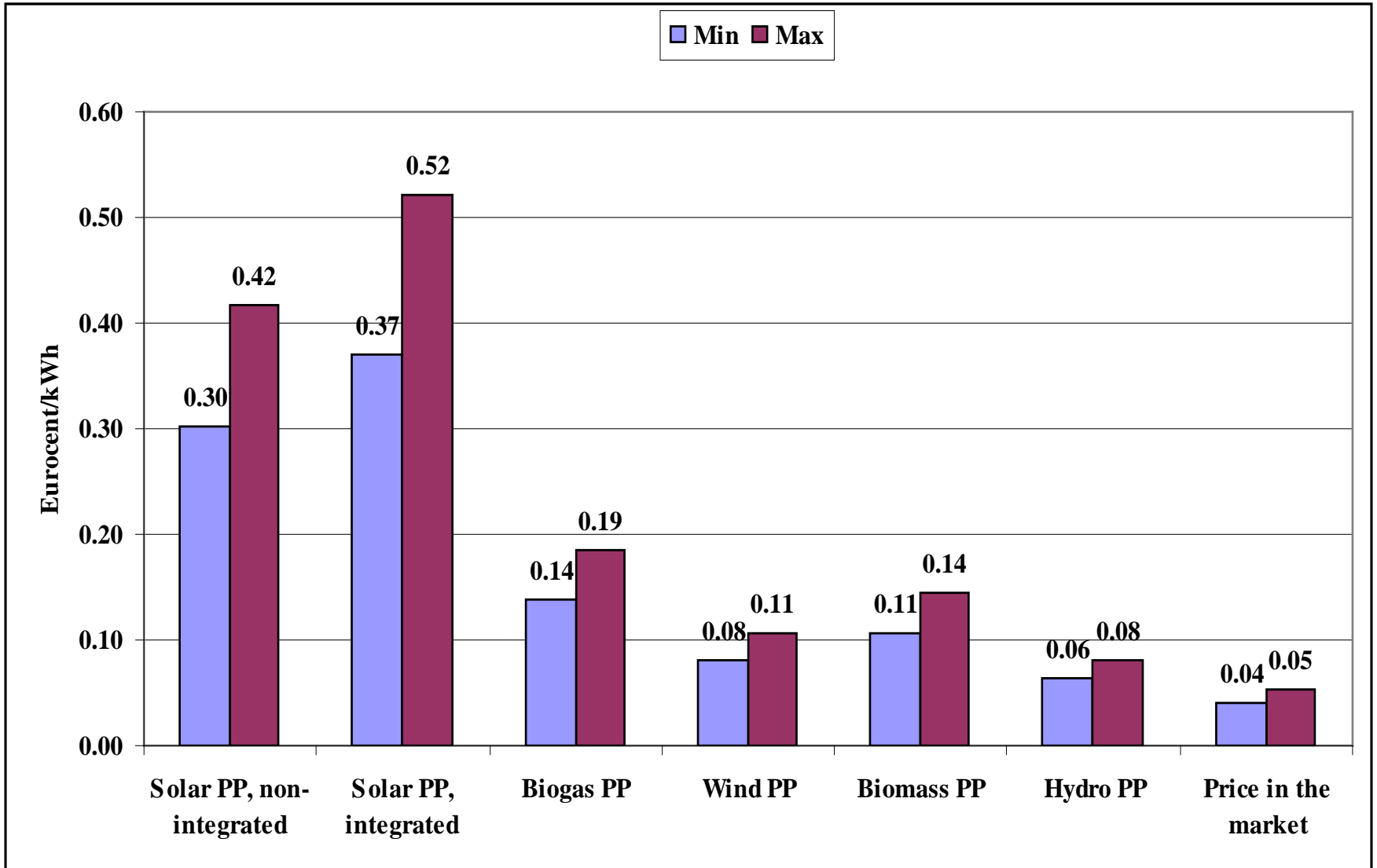
- **Fixed feed-in tariff for period of 12 years;**
- **Free grid connection;**
- **Possibilities for investment support.**

For generators above 30 kW of installed capacity:

- **Tendering for feed-in tariff for period of 12 years;**
- **Discount for grid connection cost;**
- **Possibilities for investment support.**

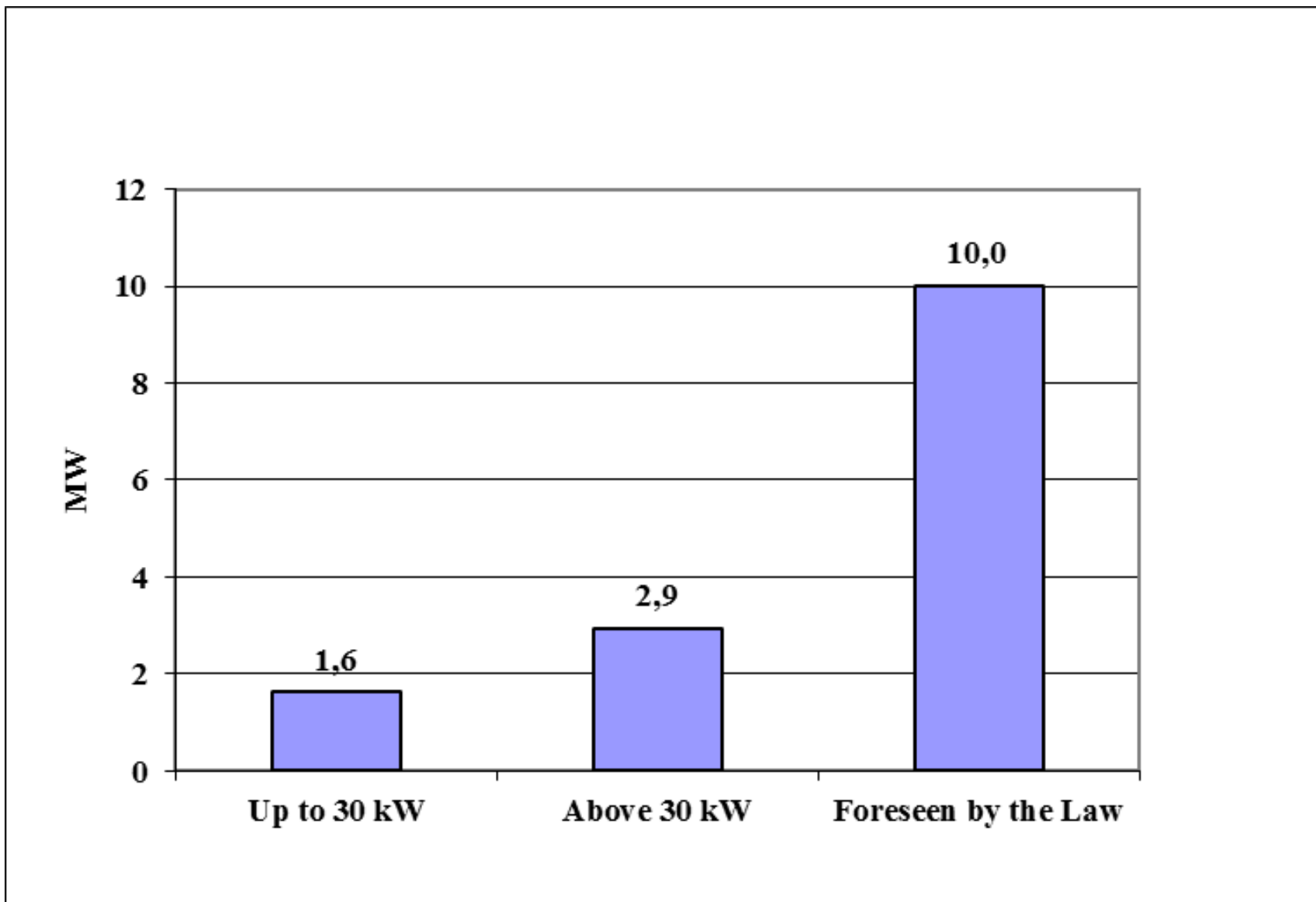


FEED-IN TARIFFS AND ELECTRICITY PRICES IN 2012



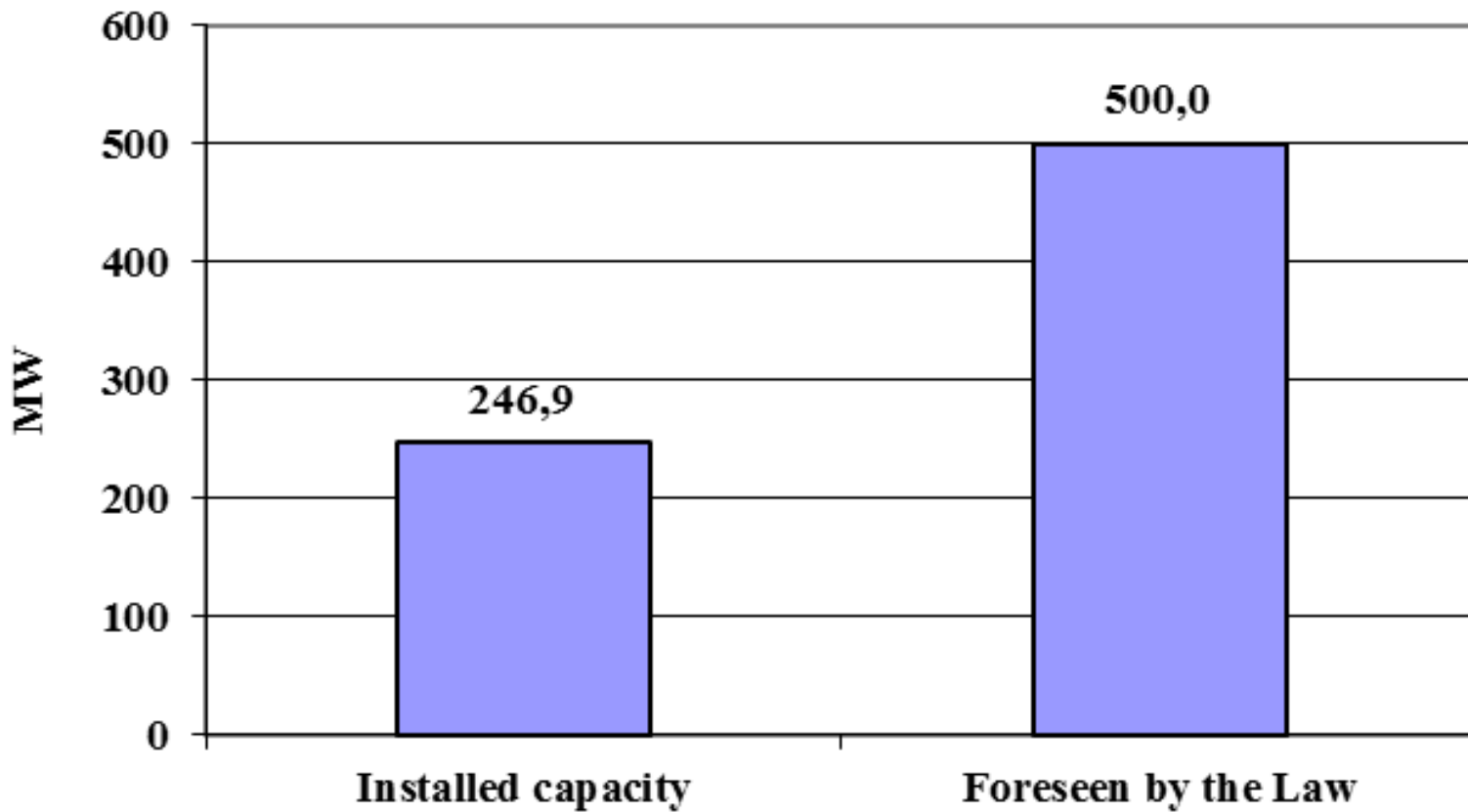


INSTALLED CAPACITY OF SOLAR PP AND FORESEEN CAPACITY BY THE LAW



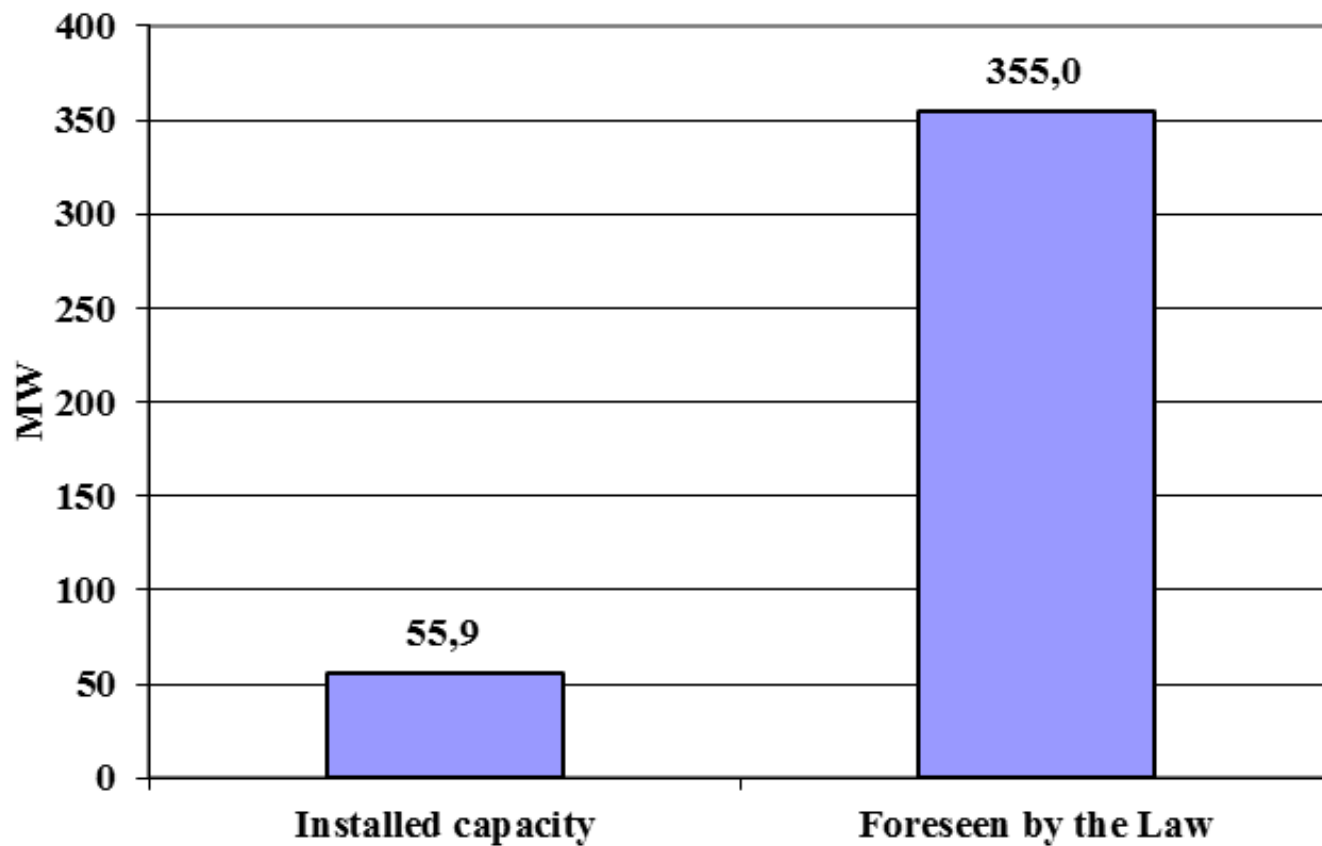


INSTALLED CAPACITY OF WIND PP AND FORESEEN CAPACITY BY THE LAW



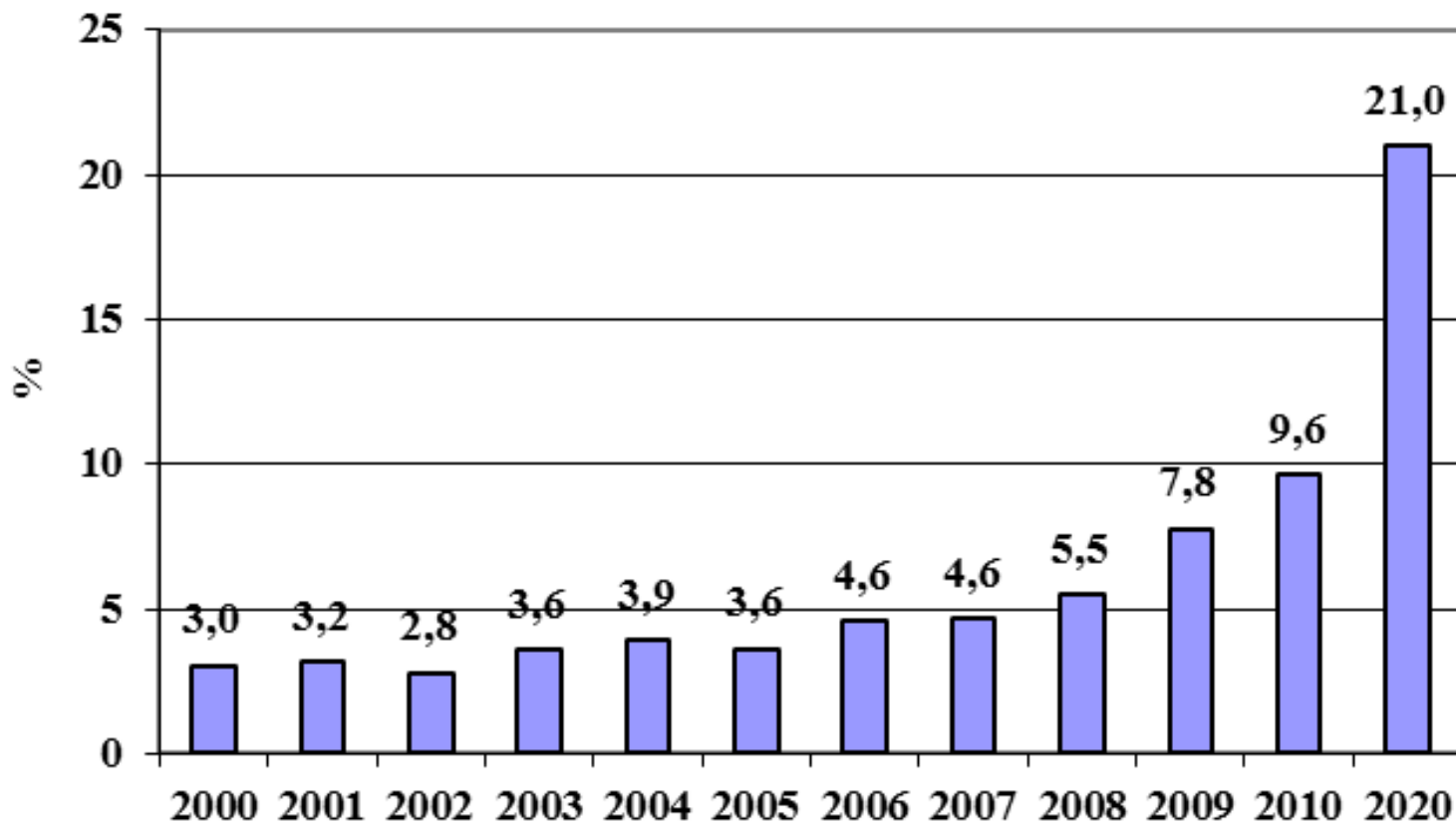


INSTALLED CAPACITY OF BIOMASS PP AND FORESEEN CAPACITY BY THE LAW



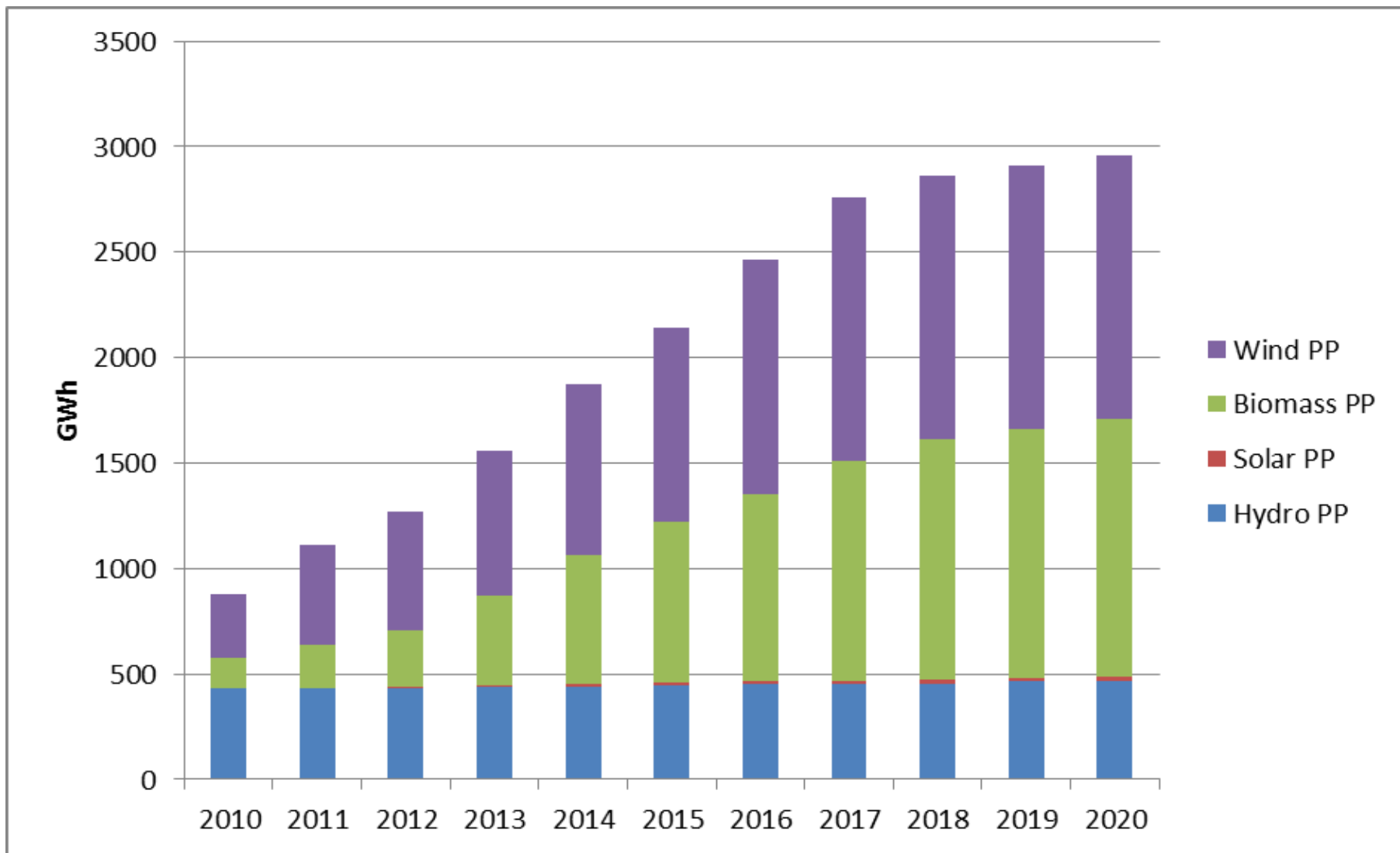


SHARE OF ELECTRICITY FROM RES IN GROSS ELECTRICITY CONSUMPTION



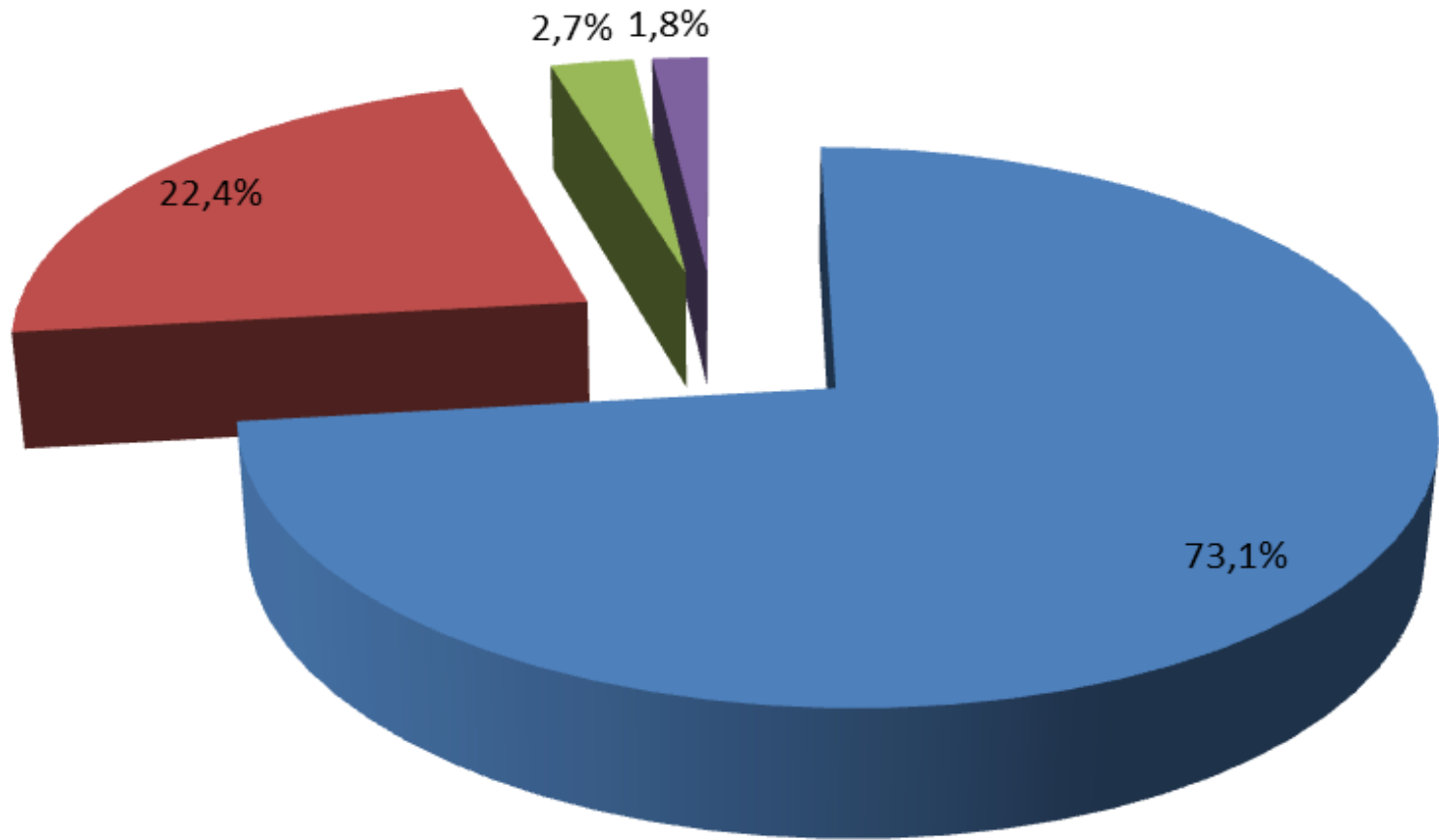


ELECTRICITY GENERATION FROM RES (NREAP)





STRUCTURE OF FUEL USED FOR DISTRICT HEAT GENERATION



■ Natural gas

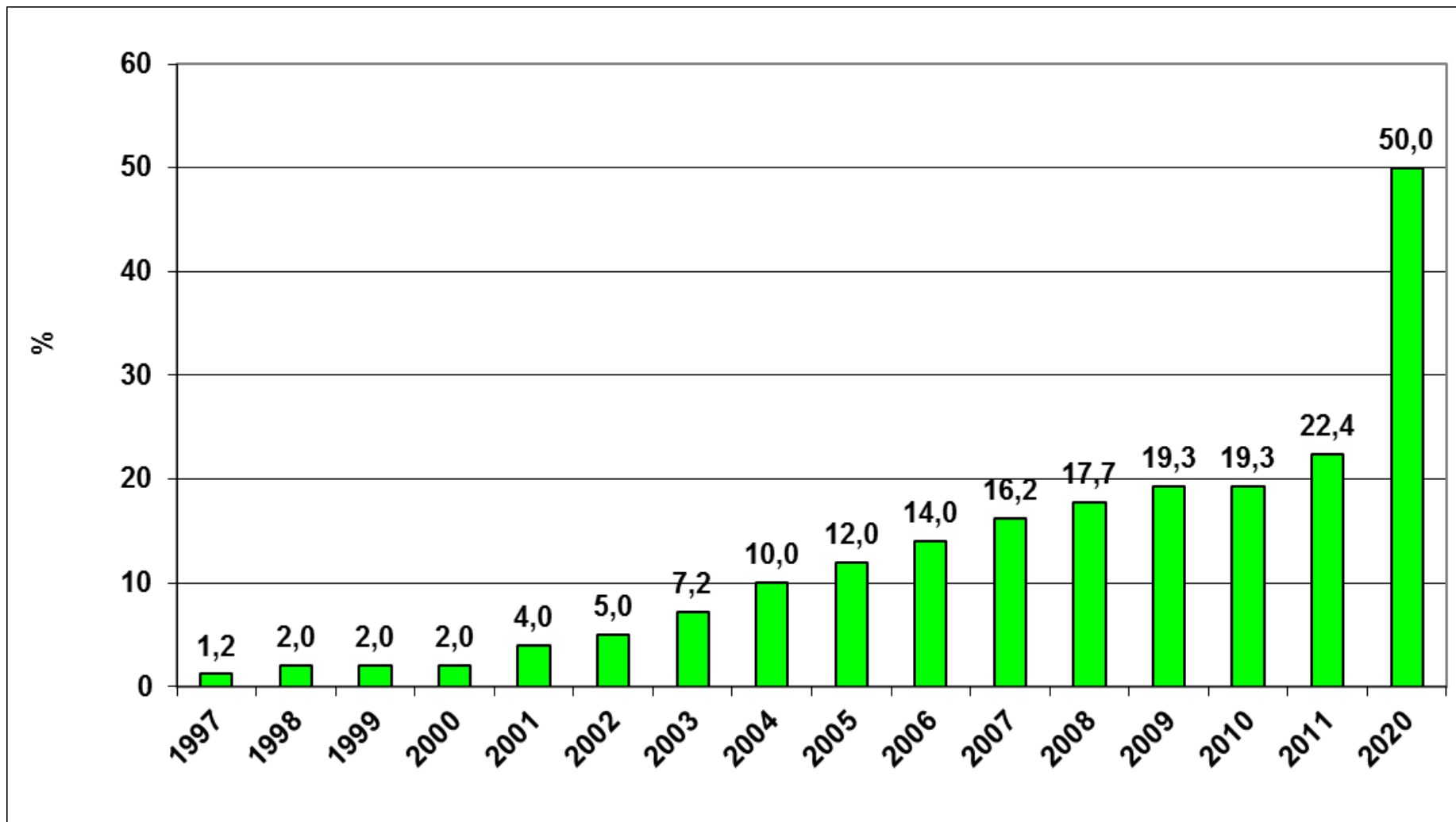
■ Renewable energy sources

■ Heavy fuel oil

■ Other fuel

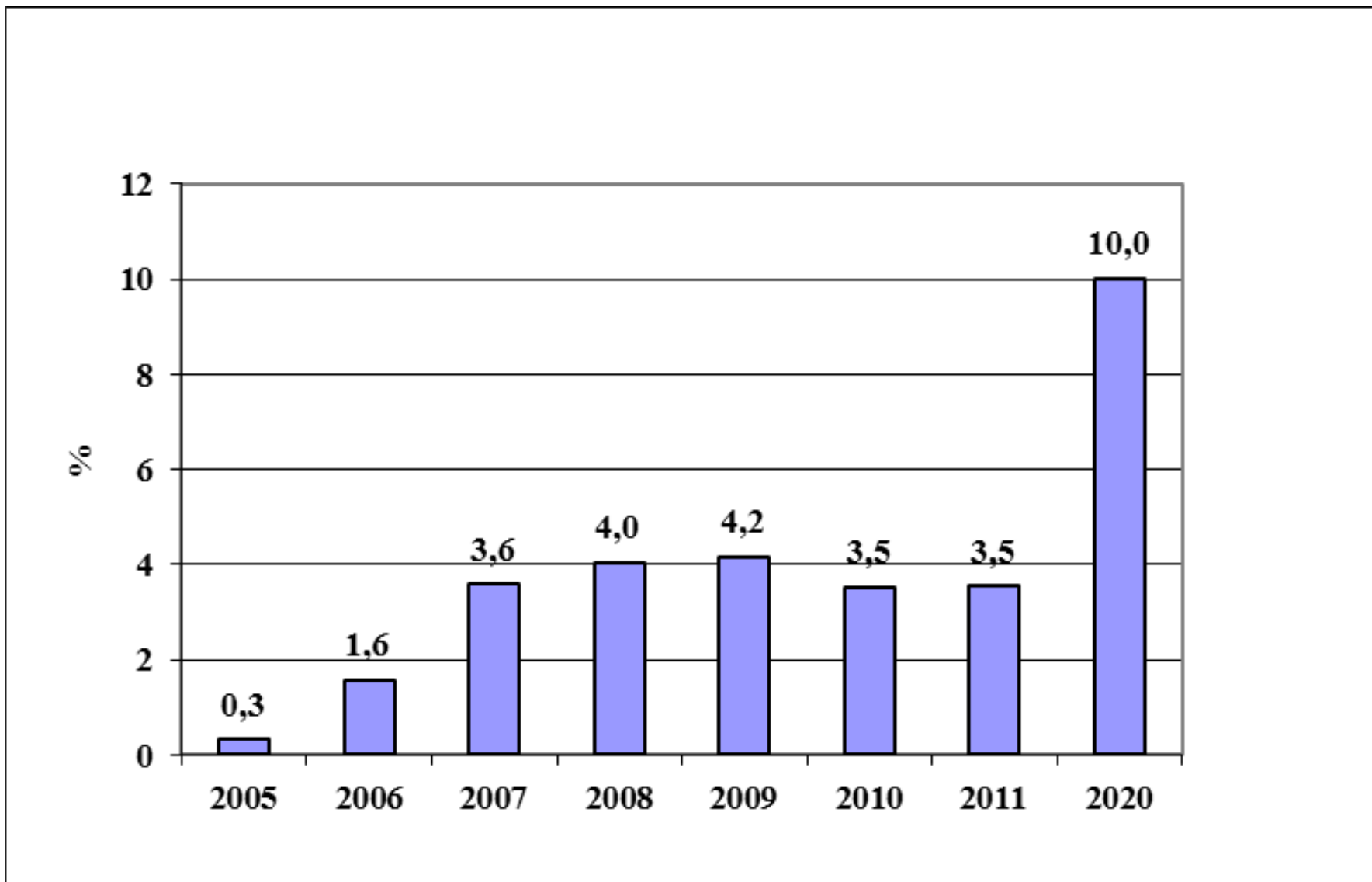


SHARE OF RES FROM FUEL USED FOR DISTRICT HEAT GENERATION



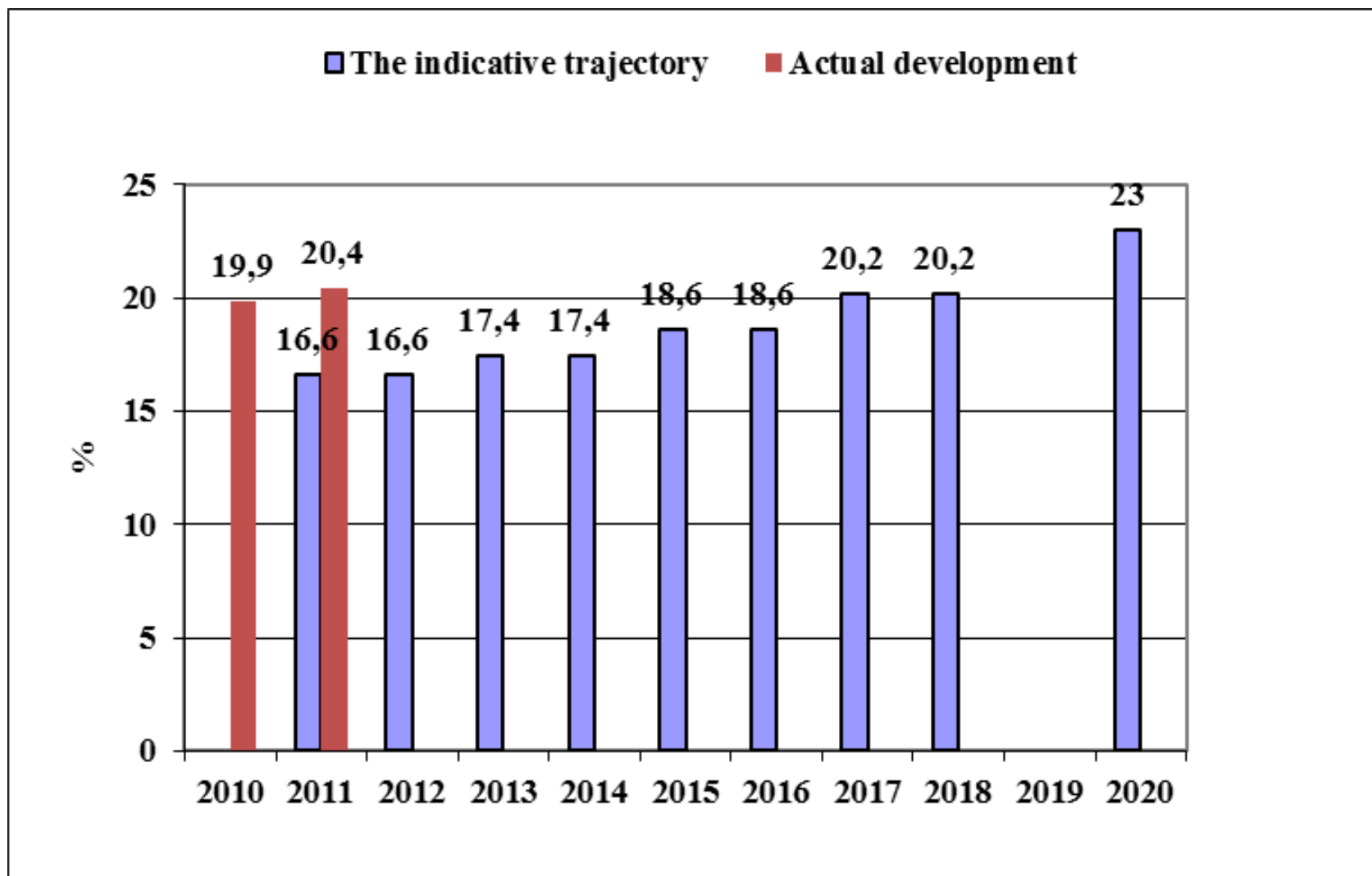


SHARE OF LIQUID BIOFUELS IN TRANSPORT SECTOR





TARGET FOR SHARE OF ENERGY FROM RES IN GROSS FINAL CONSUMPTION





**THANK YOU VERY MUCH
FOR YOUR ATTENTION!**