A start

MINISTRY OF ECONOMY THE REPUBLIC OF LITHUANIA

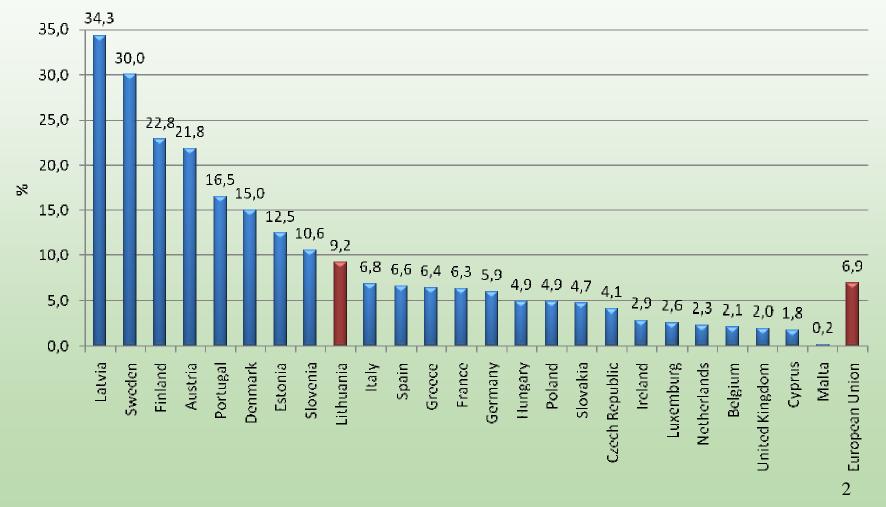
RENEWABLE ENERGY IN LITHUANIA

Vytas Navickas Minister of Economy of the Republic of Lithuania

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SHARE OF RENEWABLE ENERGY IN PRIMARY ENERGY CONSUMPTION OF EU COUNTRIES IN 2006



Source: EurObserv'ER



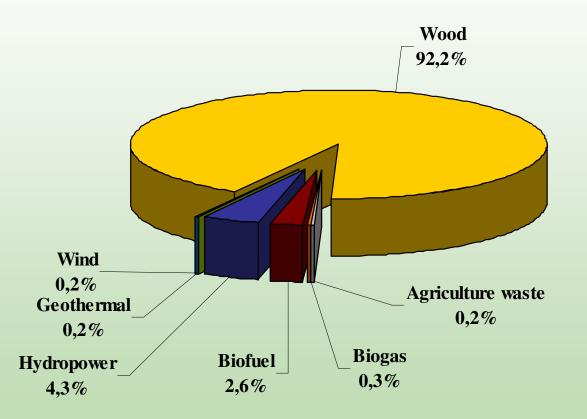
UTILISATION OF RENEWABLE ENERGY RESOURCES IN LITHUANIA IN 1999-2006



Source: Department of Statistics to the Government of the Republic of Lithuania



STRUCTURE OF UTILISED RENEWABLE ENERGY RESOURCES IN LITHUANIA IN 2006



Source: Department of Statistics to the Government of the Republic of Lithuania

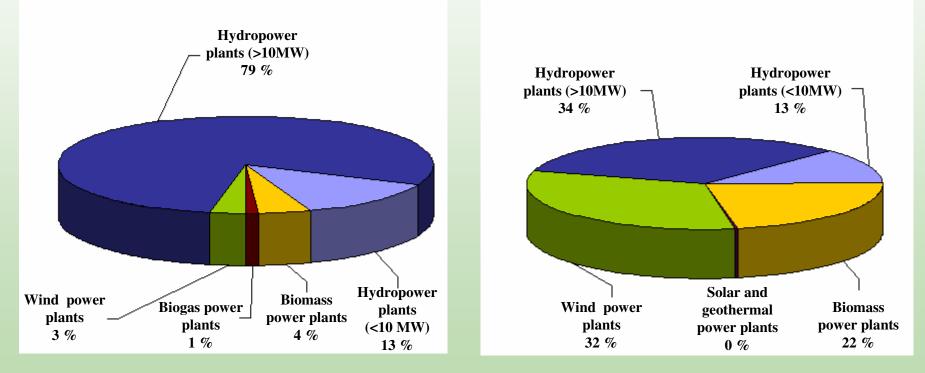
4



ELECTRICITY PRODUCTION FROM RENEWABLE ENERGY SOURCES

in 2006

in 2010



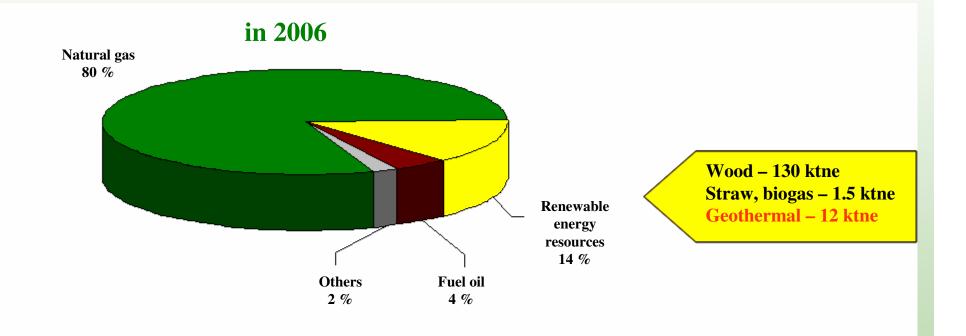
Sources:

- 1. AB Lietuvos energija (2006).
- 2. Procedure for the Promotion of Generation and Purchase of Electricity Generated from Renewable Energy Sources (2010).

A Start

MINISTRY OF ECONOMY THE REPUBLIC OF LITHUANIA

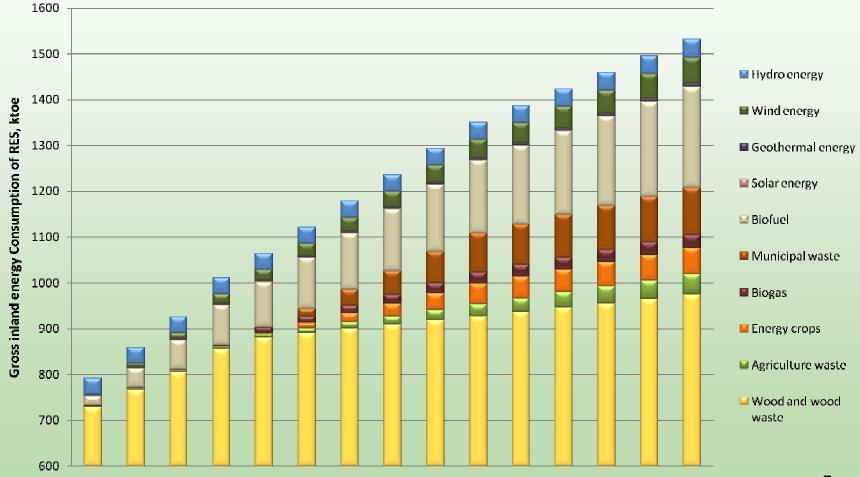
ENERGY USE IN SECTOR OF DISTRICT HEATING



Source: Lithuanian District Heating Association

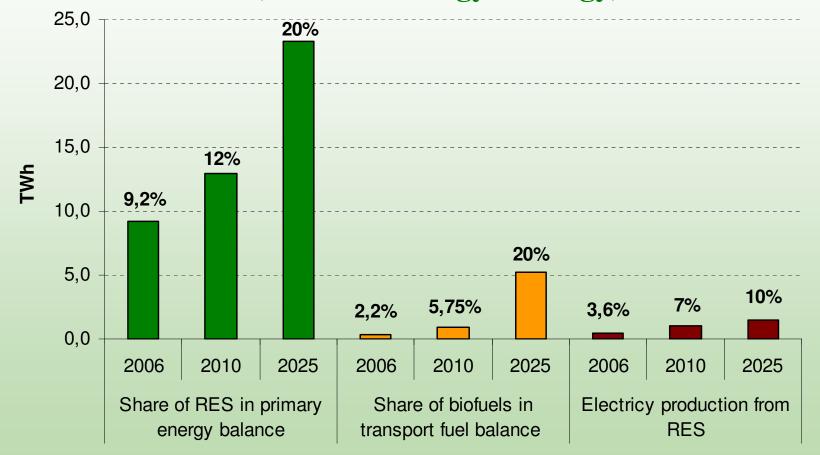


FORECAST FOR UTILISATION OF RENEWABLES



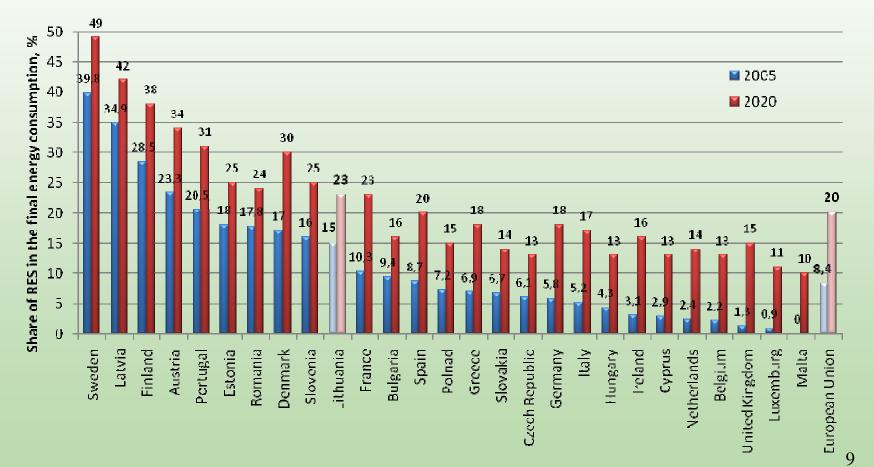


LITHUANIAN NATIONAL TARGETS FOR RENEWABLE ENERGY SOURCES (National Energy Strategy)

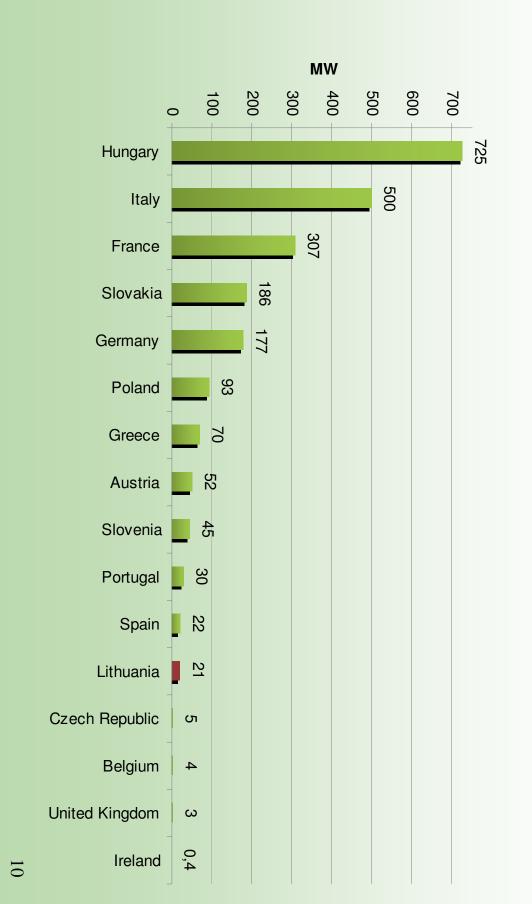




NATIONAL OVERALL TARGETS FOR THE SHARE OF ENERGY FROM RENEWABLE SOURCES IN FINAL ENERGY CONSUMPTION IN 2020



Source: EurObserv'ER

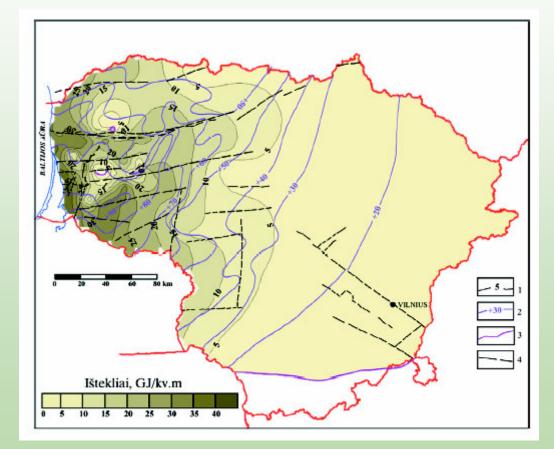


MINISTRY OF ECONOMY THE REPUBLIC OF LITHUANIA

INSTALLED CAPACITY OF GEOTHERMAL PLANTS IN 2006



MAP OF TEMPERATURE DISTRIBUTION AND FORECASTED DENSITY OF GEOTHERMAL SOURCES IN DEPTH OF 1900-2200 M



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DEVELOPMENT OF UTILISATION OF GEOTHERMAL ENERGY IN LITHUANIA

- ✓ In 1988 Institute of Geology started research on geothermal energy potential in Lithuania.
- ✓ In 1991 company "Geoterma" was established. The main aim of this company was organization of construction of geothermal plants and heat supply piping; exploitation and realization of produced heat for consumers; ordering and arrangement of geothermal energy production projects, expertise and installation.
- ✓ In 1992 Institute of Geology performed assessment of geothermal energy potential in Lithuania;
- ✓ In 1992-1994 execution of international project "Baltic geothermal project". Participating countries: Lithuania, Latvia, Denmark. Perspective place of construction of geothermal plant was selected Klaipėda city.
- ✓ In 2001 Klaipėda geothermal plant started supply of heat to the net of the district heating company "Klaipėdos energija".



DEMONSTRATIVE GEOTHERMAL PLANT IN KLAIPĖDA





PROMOTIONS OF RENEWABLE ENERGY RESOURCES IN LITHUANIA

✓ Purchase of electricity generated in biomass CHP plants (when biomass amounts not less than 70% in fuel balance, and ratio of plant electricity and heat capacity is not less than 0,23)

✓ Feed-in tariffs:

- hydro power 20 ct / kWh (5,8 ϵ /kWh);
- wind power 22 ct / kWh (6,4 \in c/kWh);
- biomass 22 / 24 ct / kWh (6,4/7,0 €c/kWh).
- ✓ Price guarantee until 31 December 2020;
- ✓ 40% discount for power plants connection to the grid;
- Priority for transportation of electricity produced from renewable energy sources;



PROMOTIONS OF RENEWABLE ENERGY RESOURCES IN LITHUANIA

- ✓ Obligation for heat suppliers, in case of the same price proposed, to purchase heat in the following priority:
 - 1. From combined CHP plants heat produced using renewable energy sources;
 - 2. Heat produced from renewable energy sources and geothermal energy;
 - 3. Waste heat from industrial processes;
 - 4. Heat from effective cogeneration plants;
 - 5. From fossil fuel heat plants.
- ✓ Available financial support for investments;
- ✓ Environment tax exemption;
- ✓ Biofuel blending obligation;
- \checkmark Excise duty exemption for energy products of biological origin.