



*Present and future in promotion of
Energy Efficiency and Renewable Energy Sources in Romania*

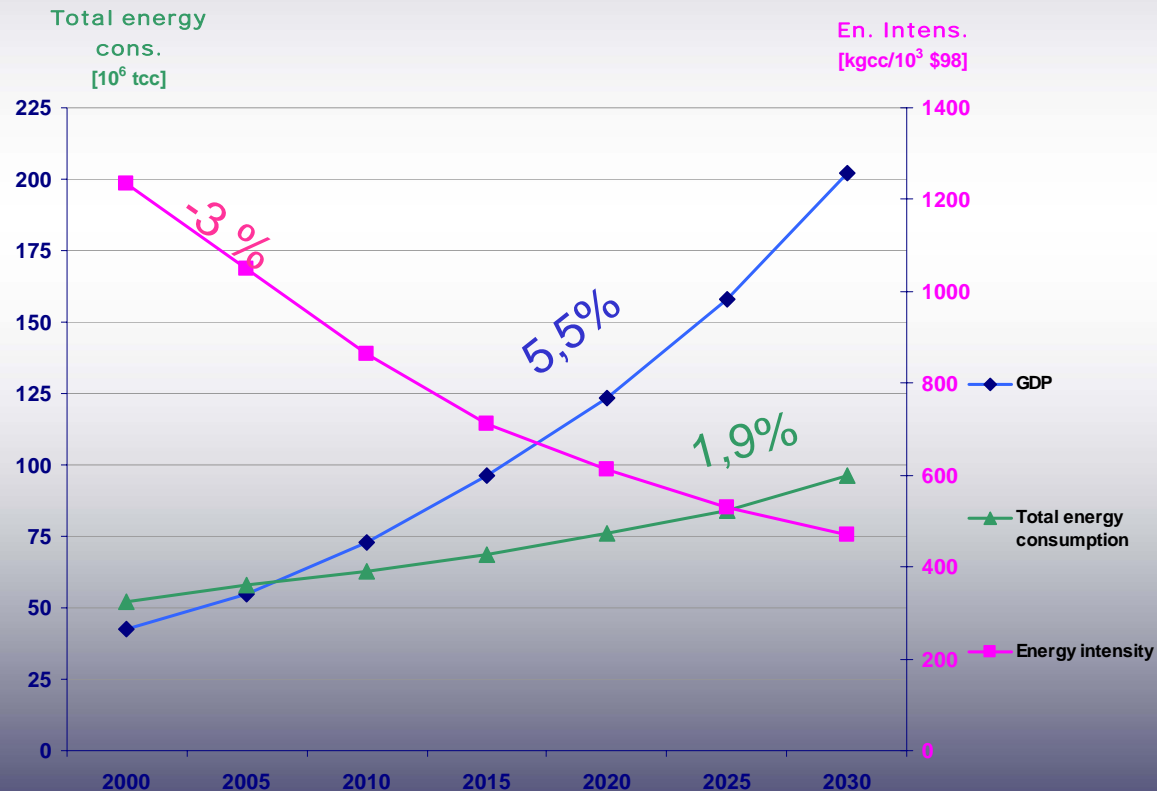
Authors: Irina NICOLAU



OBJECTIVES and TARGETS FOR ROMANIA ON LONG TERM 20-25 YEARS

THE MINIMAL SCENARIO - Correlated with the Roadmap provisions till 2015

- **increase of GDP** - obtain 50% of the average level (GDP/inh.) of EU (23,000 €/inh.) with an economic growth (GDP) of 5,5% / year;
- **competitvity** - decrease of energy intensity with 55 – 60% compared to year 2000 with a 3 % anual rate;
- **security of energy supply;**
- **environment protection.**

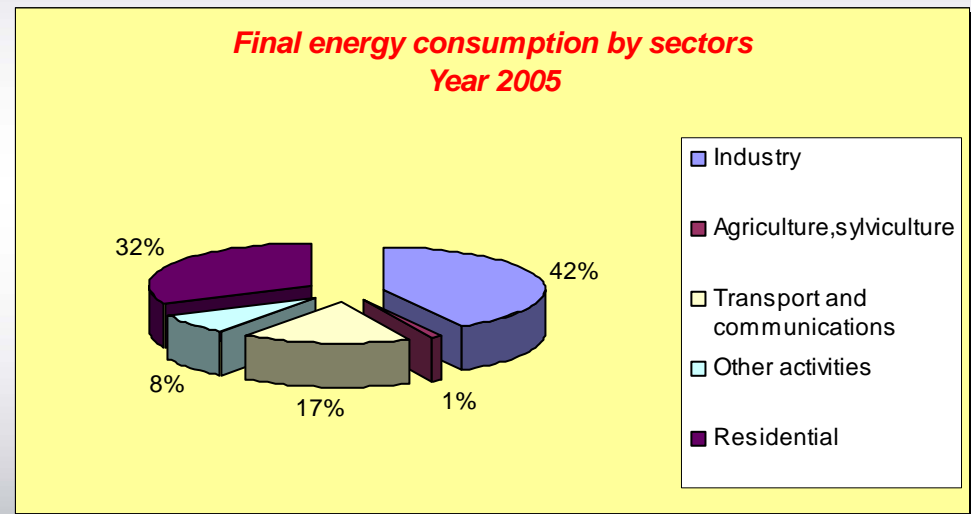




The situation of **ENERGY SECTOR** in Romania

The largest energy consumer sectors are:

- Industry;
- Residential;
- Transport and communications



Source: National Institute of Statistics – “Romanian Statistical Yearbook 2006



Objective of strategy for the renewable energy sources

2010 – Renewable energy sources a share of **11%** on the total primary energy sources;

2010 – A share of **33%** from total of generated electricity produced from renewable energy sources;
target concerning the share of electricity produced from renewable in the gross internal electricity consumption is: **2,22%** for 2006, **3,74%** for 2007, **5,26%** for 2008, **6,78%** for 2009 and **8,35%** for 2010-2012.

2015 – Renewable energy sources a share of **15%** on the total primary energy sources.





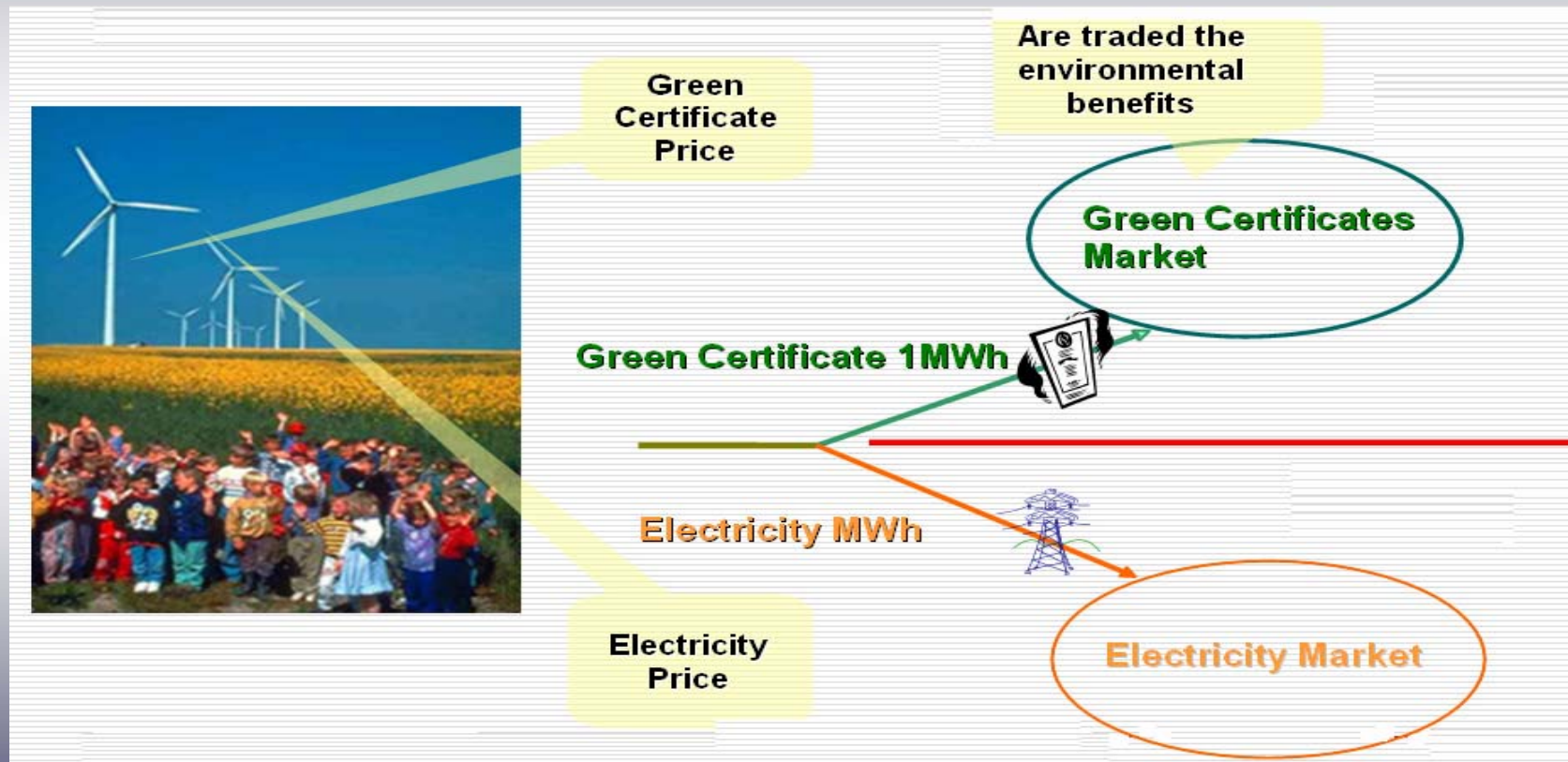
Legislation regarding renewable energy sources

Romania transposed in national legislation the provisions of

- **Directive 2001/77/CE** regarding promotion electricity produced from renewable energy sources **GD 958/2005**
- **Directive 2003/30/EC** for promoting the use of bio-fuels and other renewable fuels for transport **GD 456/ 2007(GD1844/2005)**
- **G.D 199/2000** - regarding the efficient use of energy, with further modification, **G.D 56/2006**
- **G.D 1535/2003** - Strategy for the renewable energy use
- **G.D 1892/2004** - regarding establish the promotion system for electricity produced from renewable energy sources



Promotion system of renewable energy sources in Romania





Renewable Energy Sources eligible to receive GC

GC is one document that attest amount of 1 MWh of electricity produced from:

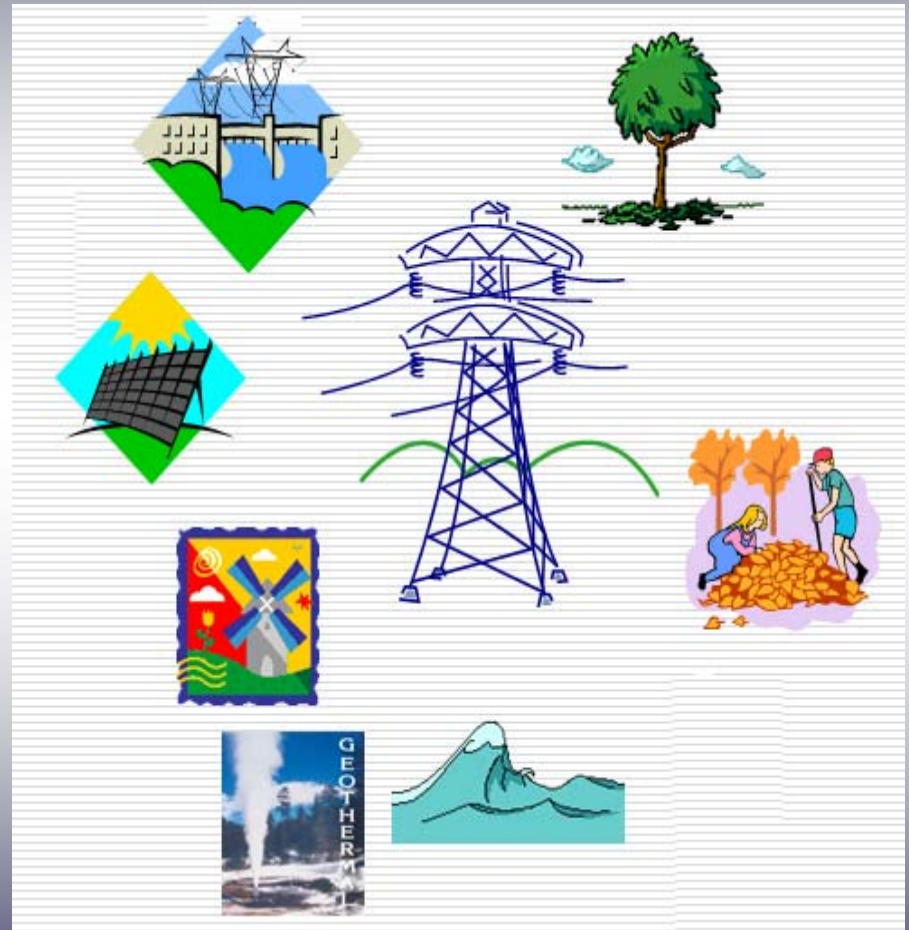
Solar energy

Wind energy

Hydro power plant $\leq 10\text{MW}$

Biomass

Geothermal energy



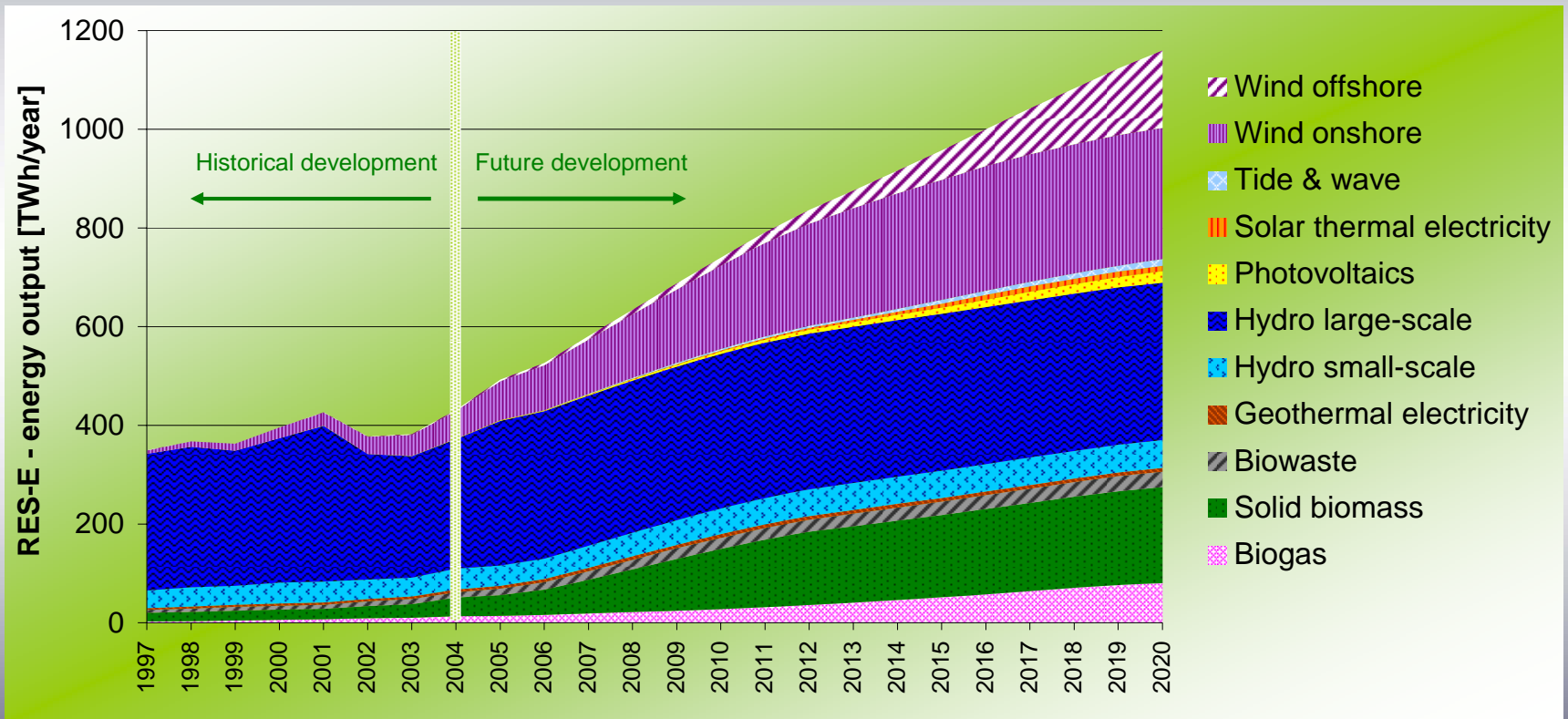


- The biofuels Directive established a reference value of a 2% share for biofuels in 2005 and 5.75% in 2010
- G.D 456/ 2007 sets as reference values a 2% market share for biofuels starting with 2007 - July, 3% in 2008 - January ,4 % in 2008 - July and 4% in 2009 –July

Some private companies with romanian or foreign capital are interested to operate producer capacity of **biofuels**



Renewables growth: Electricity projections by 2020





Contact us:

ARCE HEADQUARTERS

Tel.: +40213145929

Fax: +40213123197

16 Boulevard Nicolae Balcescu,
1st district
RO 010052 Bucharest 37
e-mail: nicolau@arceonline.ro

www.arceonline.ro

THANK YOU FOR YOUR ATTENTION !