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**REPUBLIC OF SLOVENIA**  
**MINISTRY OF THE ENVIRONMENT AND SPATIAL PLANNING**

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**Directorate for European Affairs and Investments**

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**Department for Energy Efficiency and Renewable Energy Sources**

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# *Renewable heat in Slovenia*

*Hinko Šolinc, M. Sc.*

*7th International Feed-in Cooperation Workshop*

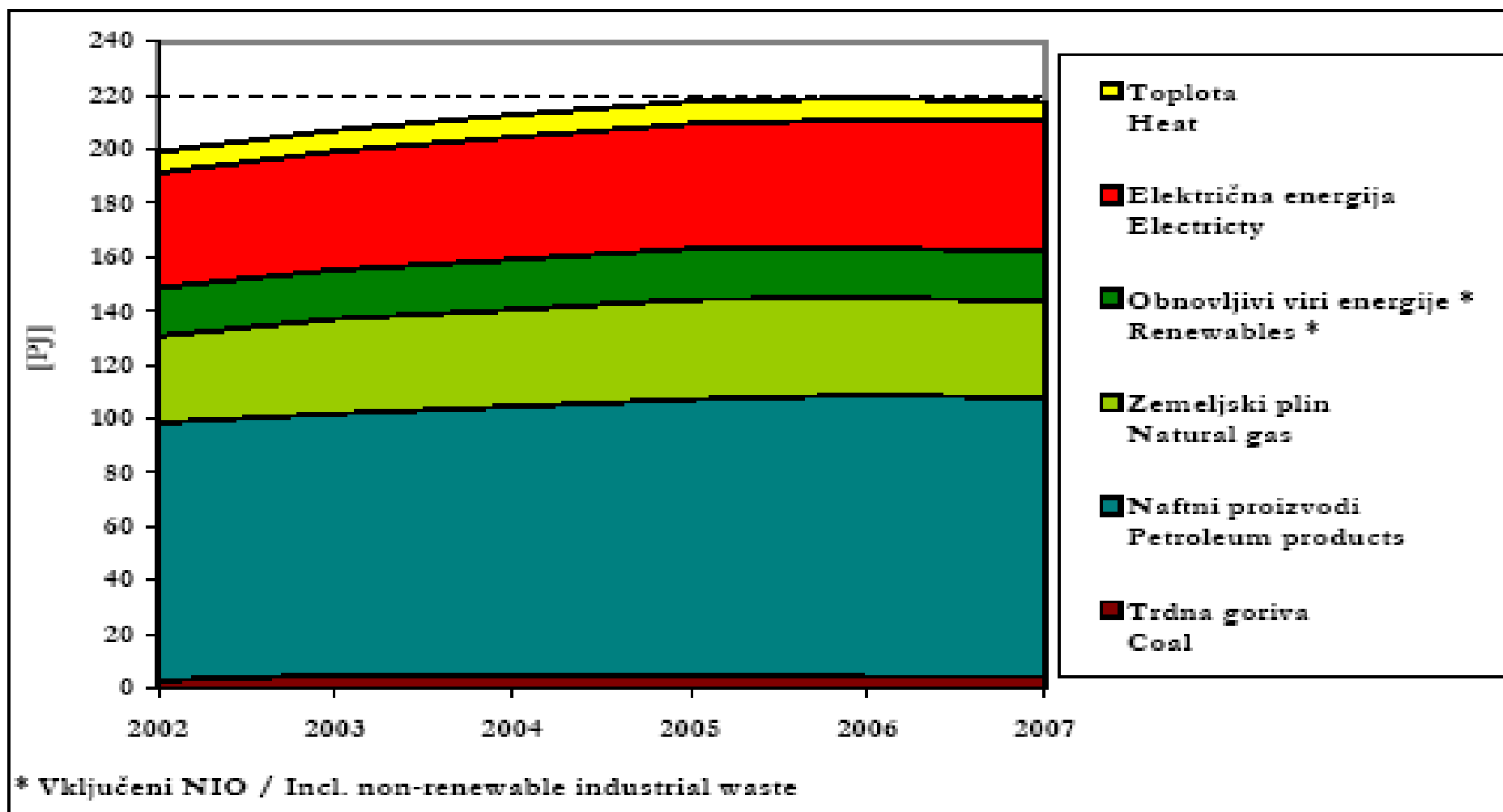
*Vransko, 28. May 2009*

# *Country overview*

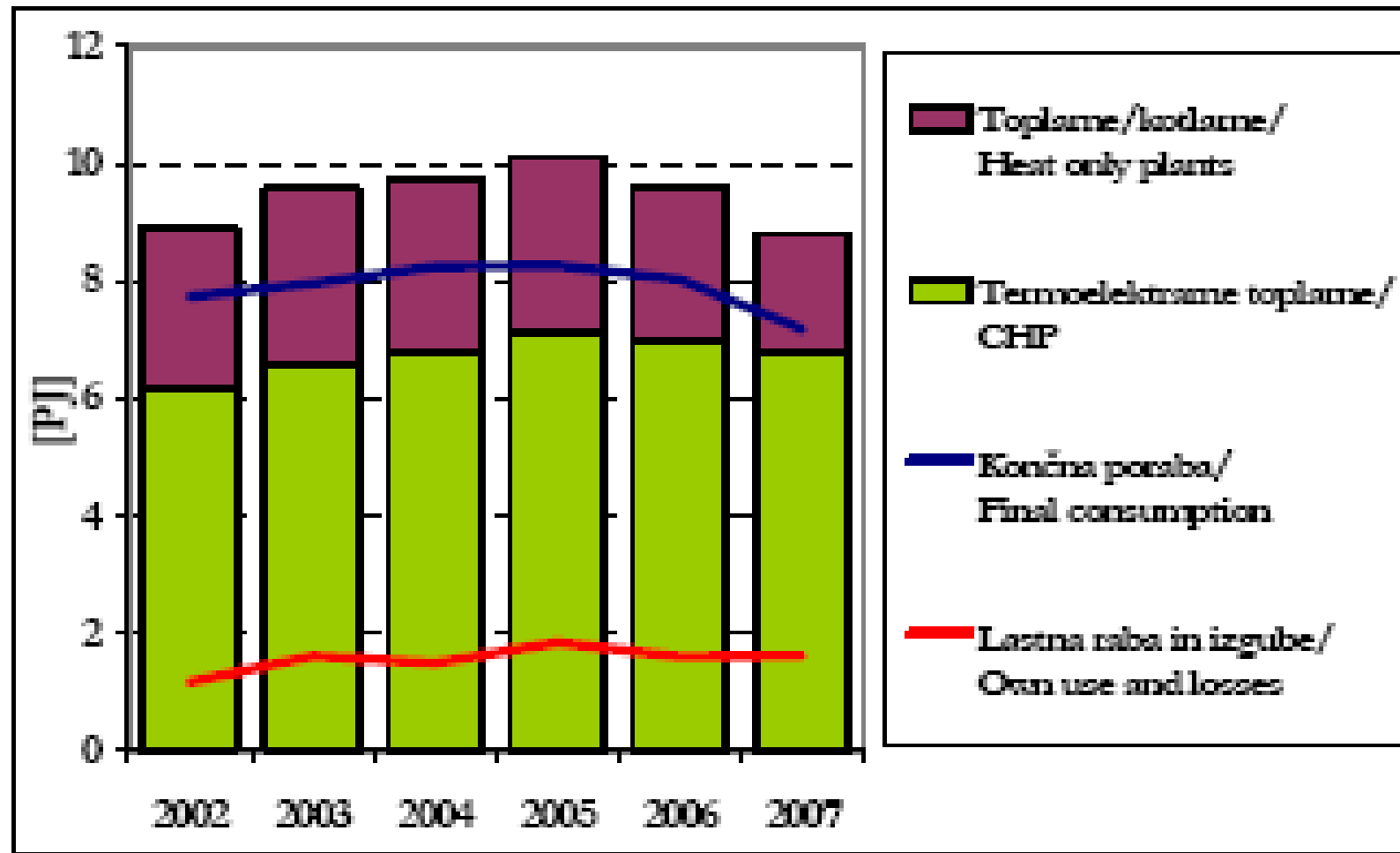


- *Population: 2 millions*
- *Area: 20,000 square km*
- *More than 10,000 square km of forests*
- *Annual primary energy consumption: 298 PJ (7,1 Mtoe, 83 TWh)*

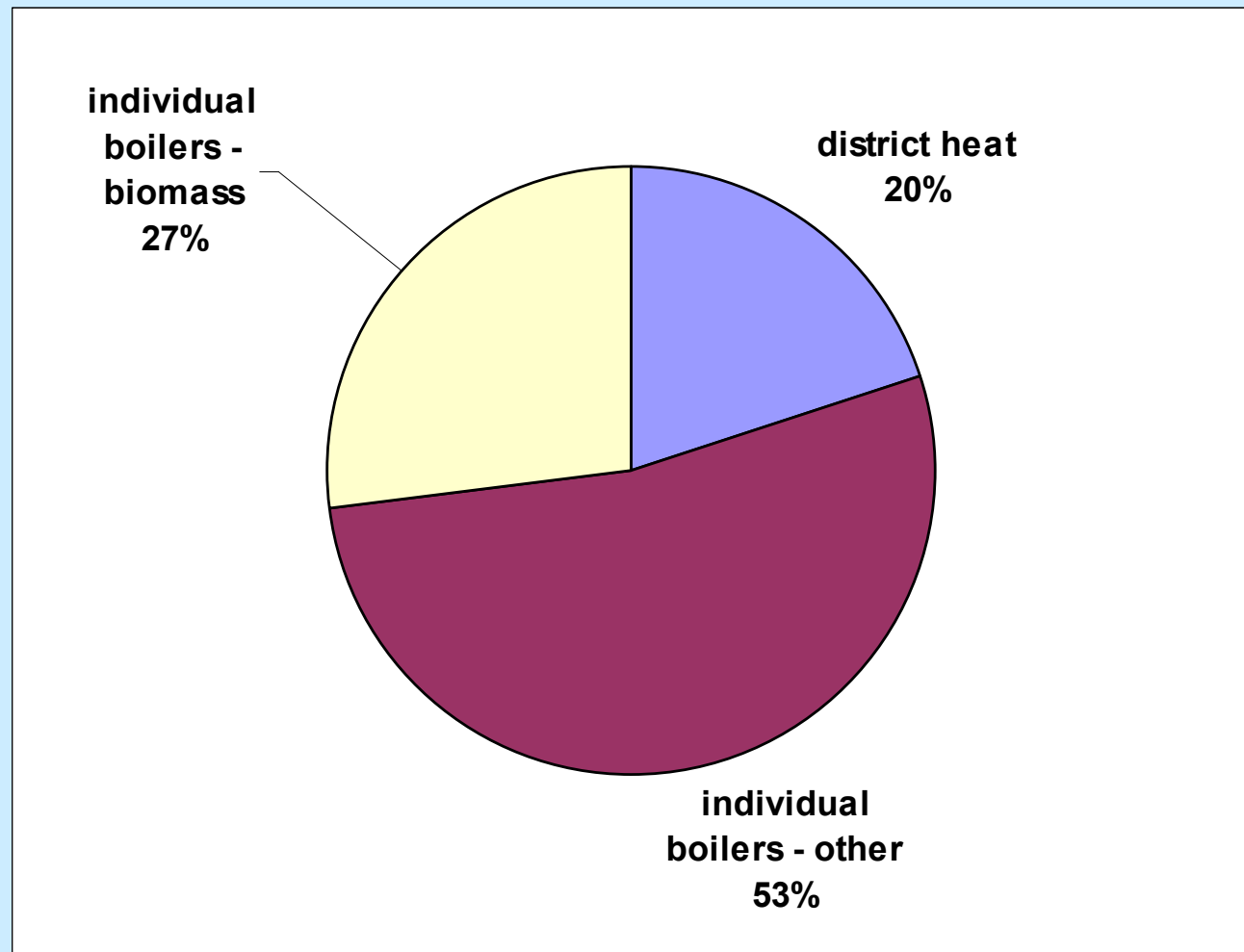
# Total final consumption, 2002-2007



# Fuel for district heat generation, 2002-2007



# *Households heating*



# *Resolution on National energy program - targets*



## *1. Energy efficiency*

- Increasing energy efficiency in industry for 10 % till 2010*
- Increasing energy efficiency in public sector for 20 % till 2010*
- Increasing energy efficiency in transport and traffic for 20 % till 2010*
- Doubling the share of electricity from CHP till 2010*

## *2. Renewables*

- Increasing the share of renewables in primary energy consumption on 12 % till 2010*
- Increasing the share of renewables for heat on 25 % till 2010*
- Increasing the share of RES for electricity on 33,6 % till 2010*

# *New Targets*



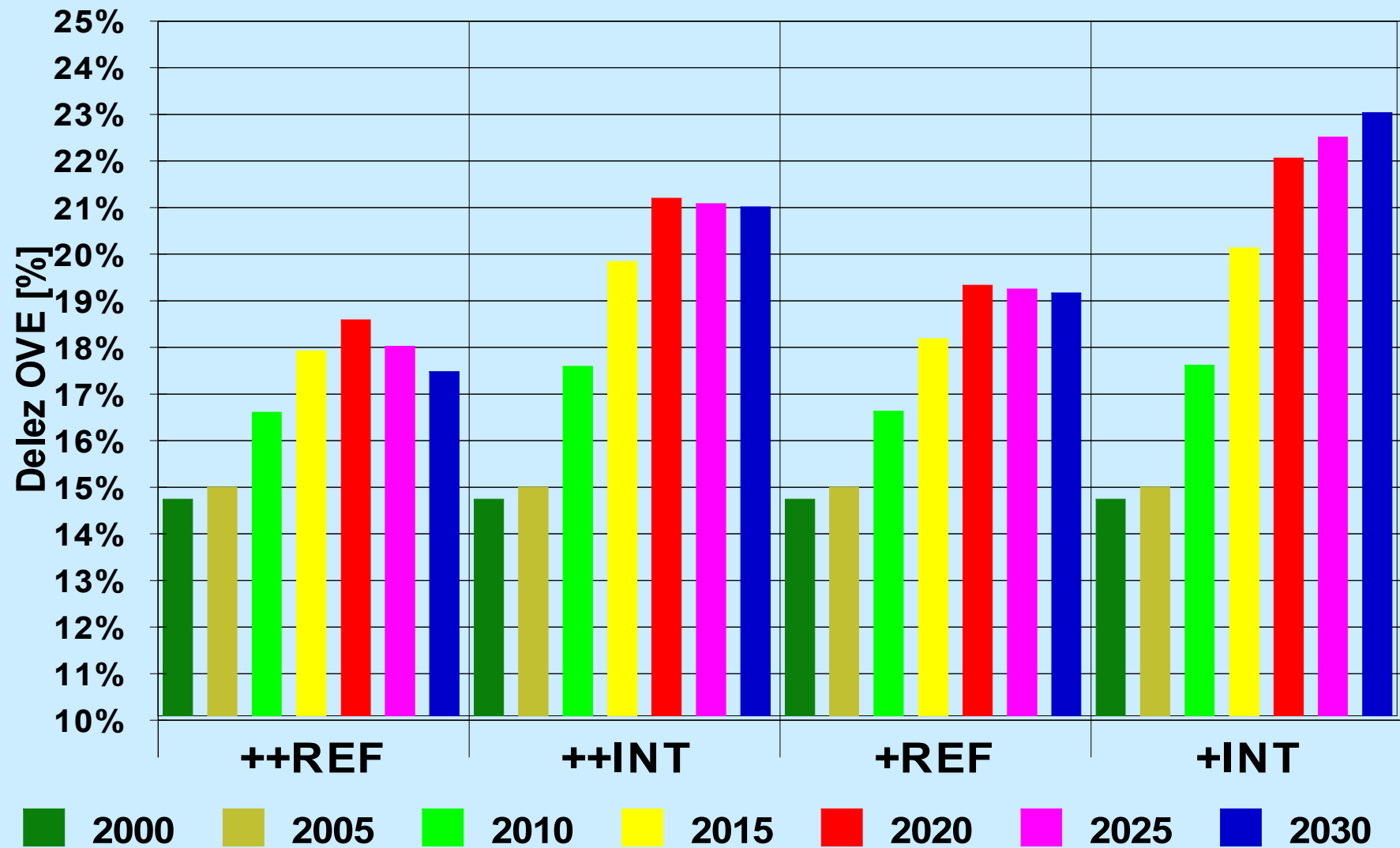
## *1. ENERGY EFFICIENCY*

- Reduce energy consumption for 9 % till 2016*
- Increase energy efficiency for 20 % till 2020*

## *2. RENEWABLES*

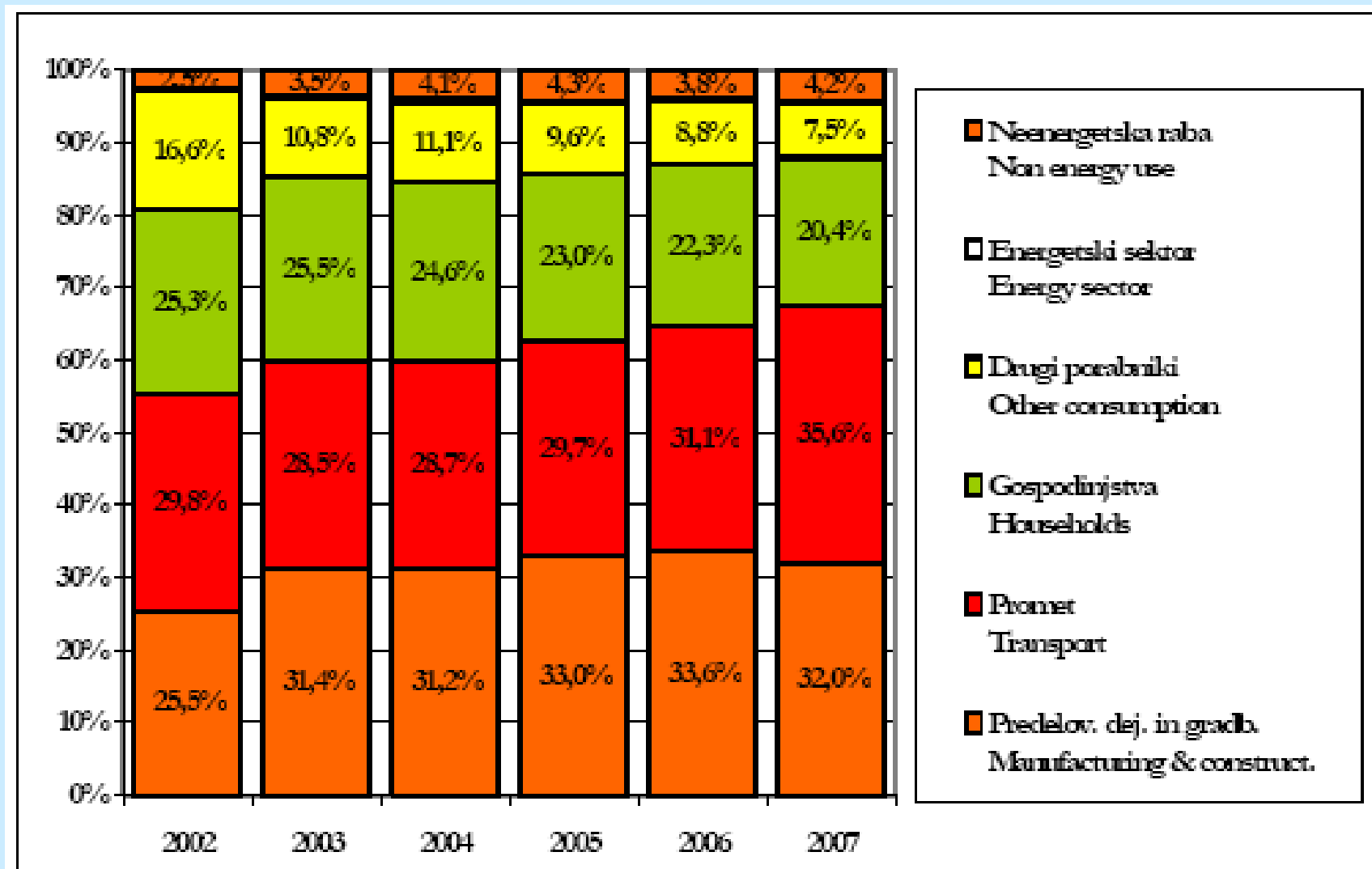
- Increase the share of renewables in final energy consumption on 25 % till 2020*
  - Increase the share of biofuels on (at least) 10 % till 2020*
- and*
- Increase the share of renewables for heat on 30 % till 2010*
  - Increase the share of RES for electricity on 30 % till 2010*

# RES share in final energy consumption

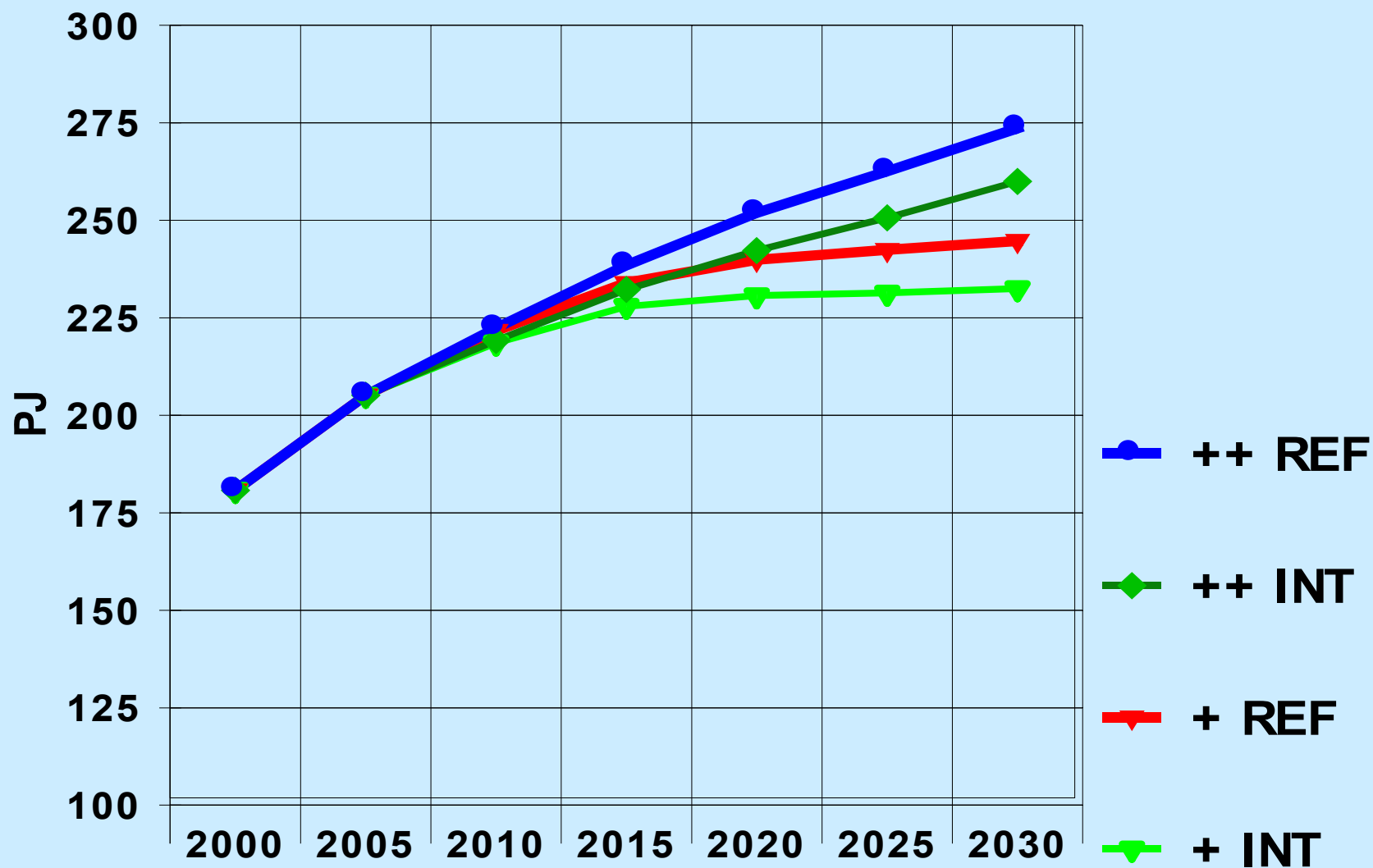


Source: Dolgoročne energetske bilance RS za obdobje 2006 – 2026, IJS, 2008

# Final consumption by sectors 2002-2007



# Final energy consumption



Source: Dolgoročne energetske bilance RS za obdobje 2006 – 2026, IJS, 2008

# *Measures for energy efficiency*



- *informing and educating,*
- *subsidising of energy audits, local energy concepts, investment documentation for EE,*
- *providing energy advice to households (ENSVET),*
- *financial incentives to households for EE ,*
- *financial incentives to residential buildings for EE ,*
- *financial incentives to companies and municipalities for EE investments*

# ***ENSVET PROJECT:*** ***State & Local Partnership for EE in Housholds***



## ***ENERGY ADVICE NETWORK***

- **35 energy advice offices, all over Slovenia**
- **Service of 66 advice experts**
- **Cost free energy advices for households**



## ***MINISTRY OF THE ENVIRONMENT AND SPATIAL PLANNING :***

- **Education & training for advice experts, information & promotion material, financing of services (600.000 EUR / a)**

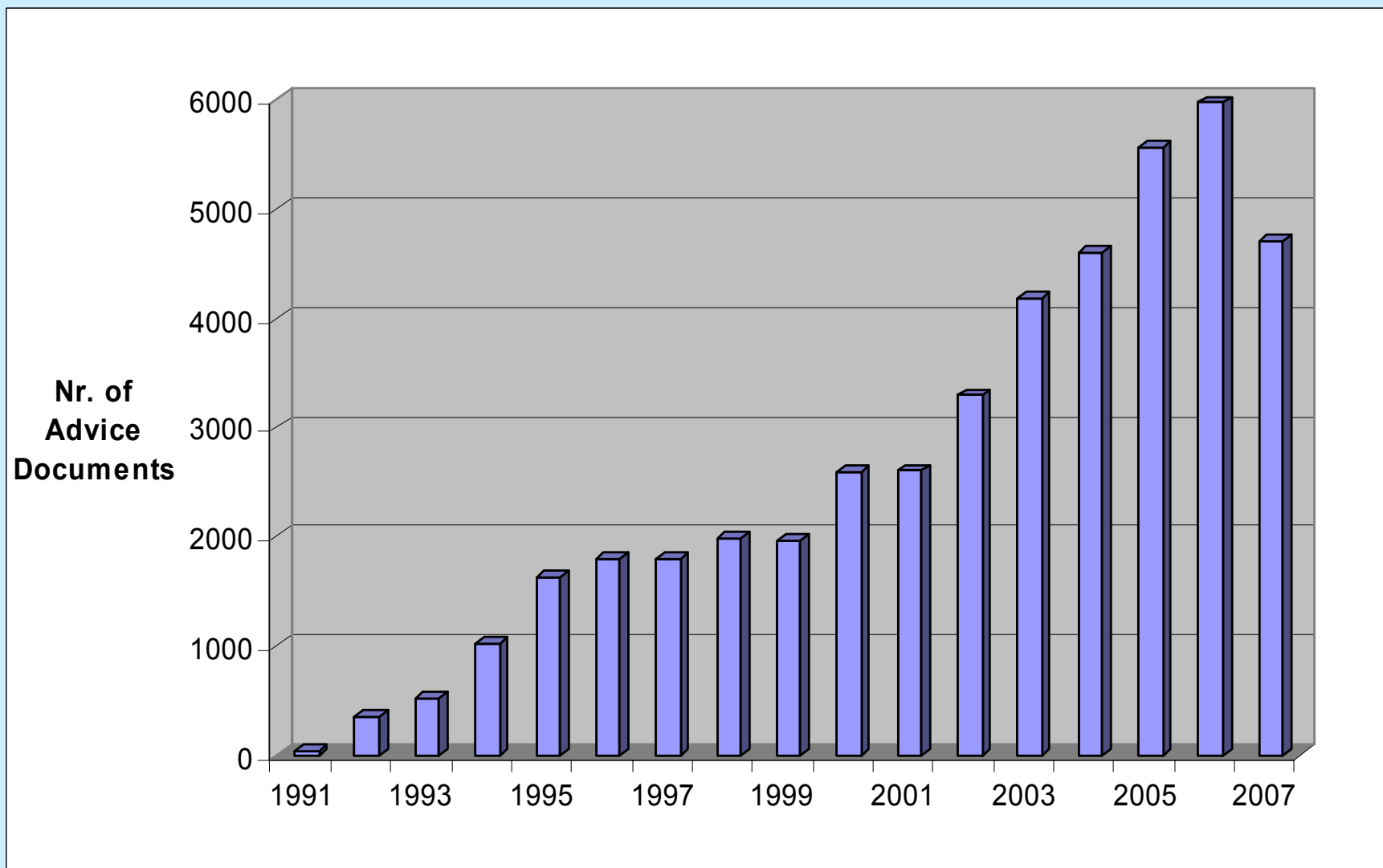
## ***Local Community:***

- **Local office, local promotion activities**

## ***Outputs: (yearly)***

- **Up to 6.000 written advice documents**
- **Aprox. 10.000 preliminary advices**
- **Up to 400 local events, articles & local RTV contributions**

# *ENSVET PROJECT: Main Success Instrument*

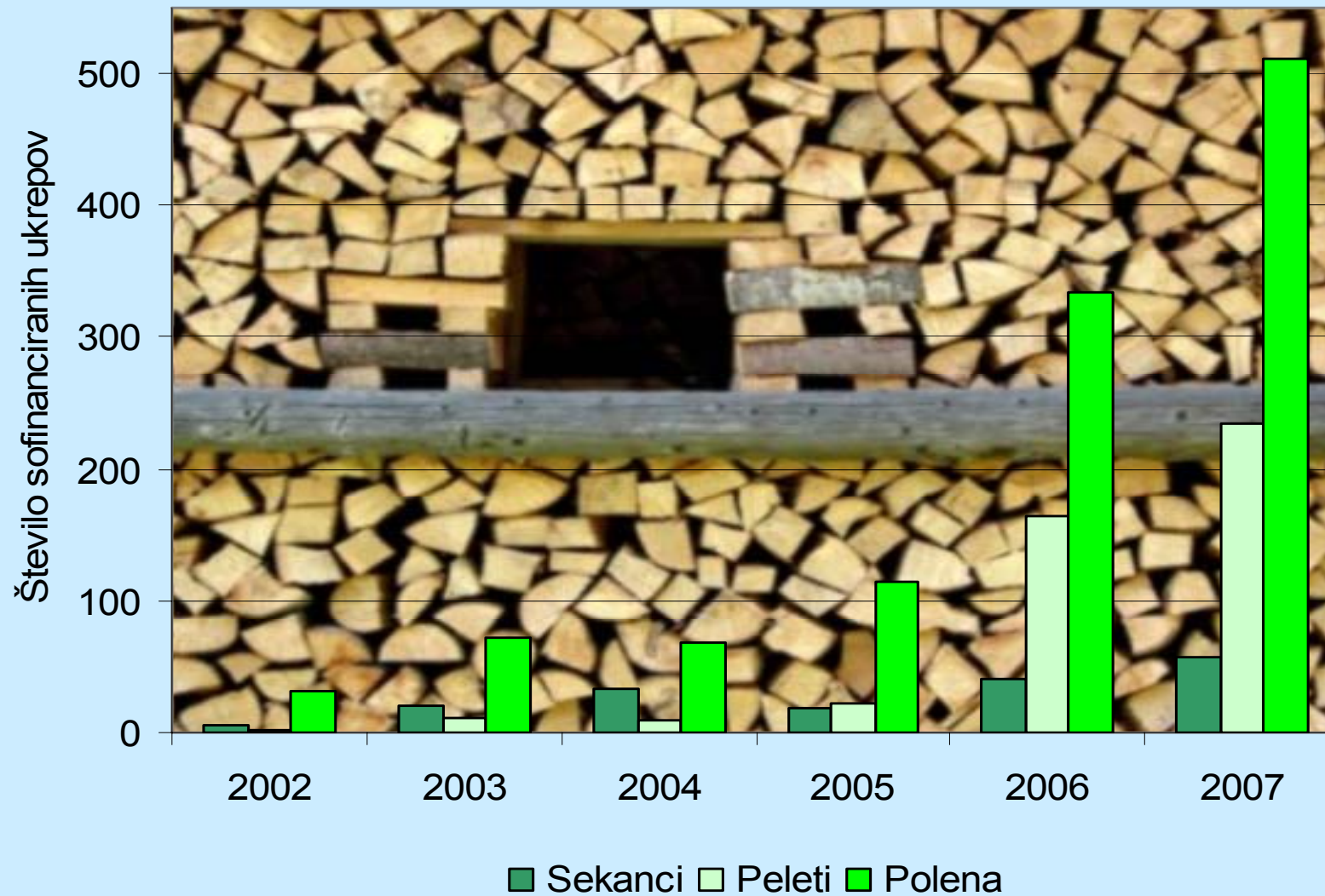


# *Heat from RES*

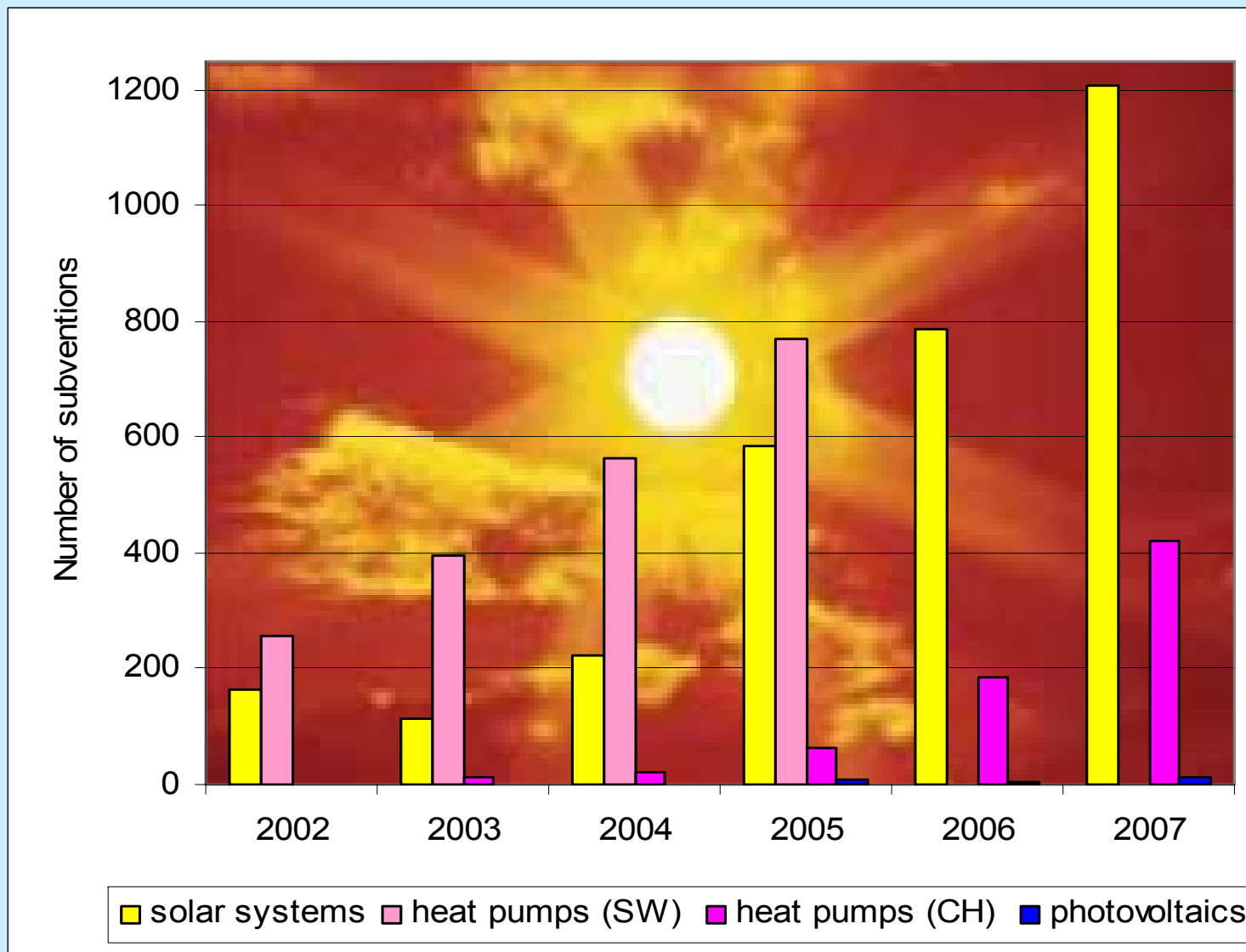


- informing and educating,
- providing energy advice to households,
- subsidising of investment documentation for RES
- ,
- financial incentives to households for RES,
- financial incentives to companies and municipalities for RES investments.

# Biomass boilers subsidies

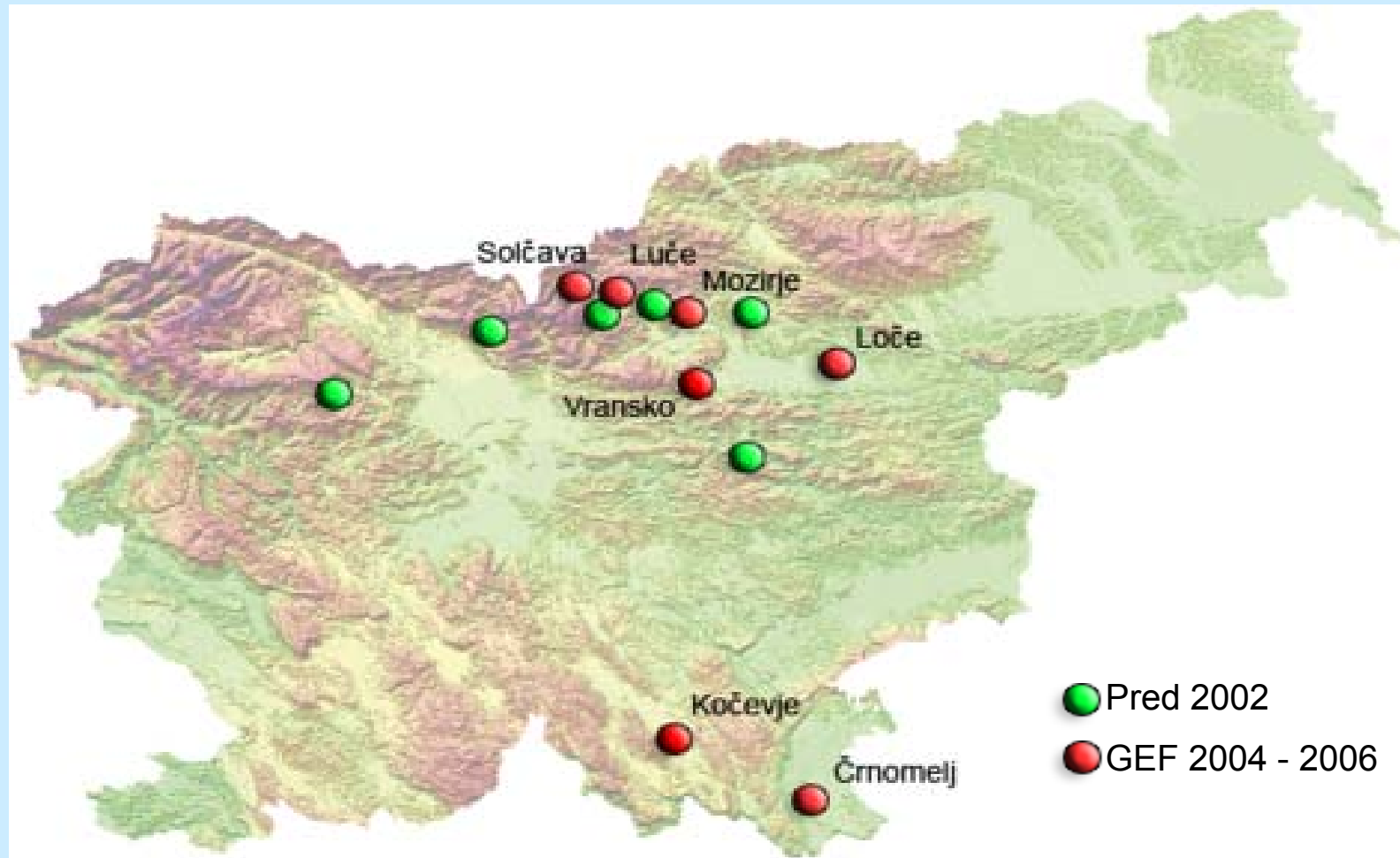


# Co-financed solar systems, heat pumps and PV

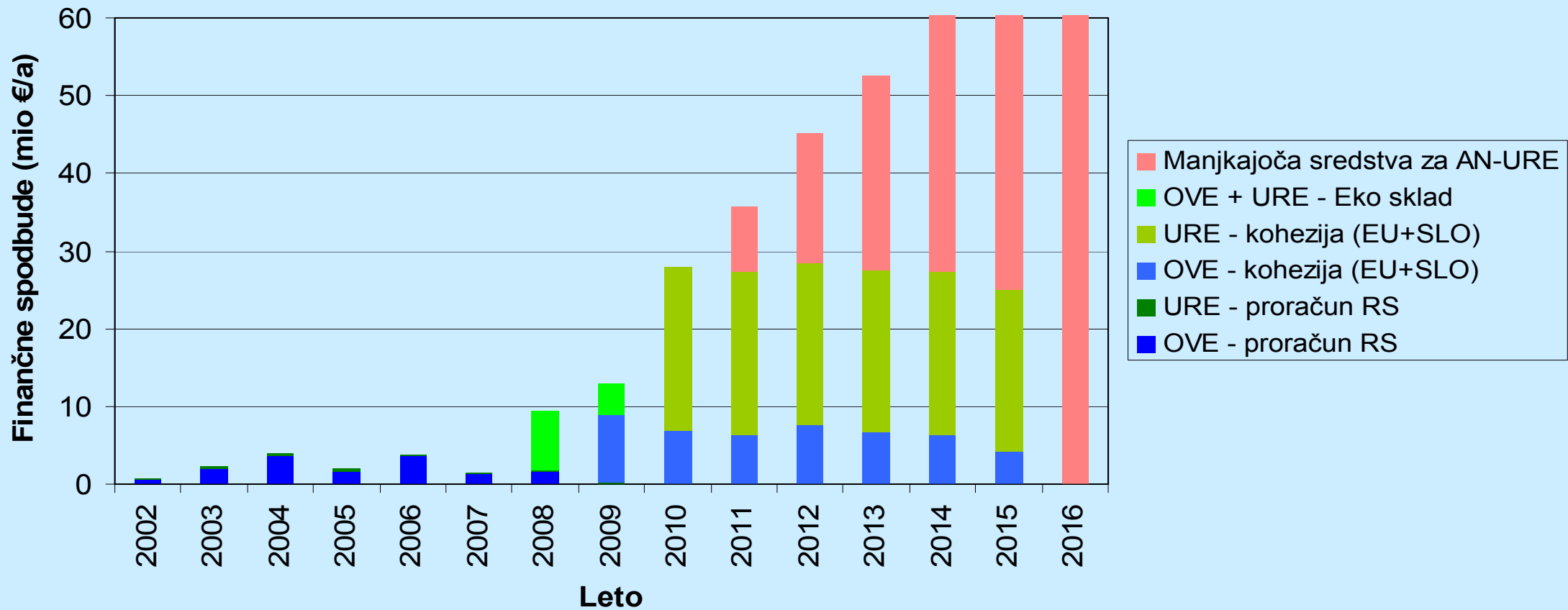


SW – sanitary hot water  
CH – central heating

# *Biomass district heating*



# Financial incentives for EE and RES\*



\* Without green electricity supporting scheme

*Thank you for your attention!*