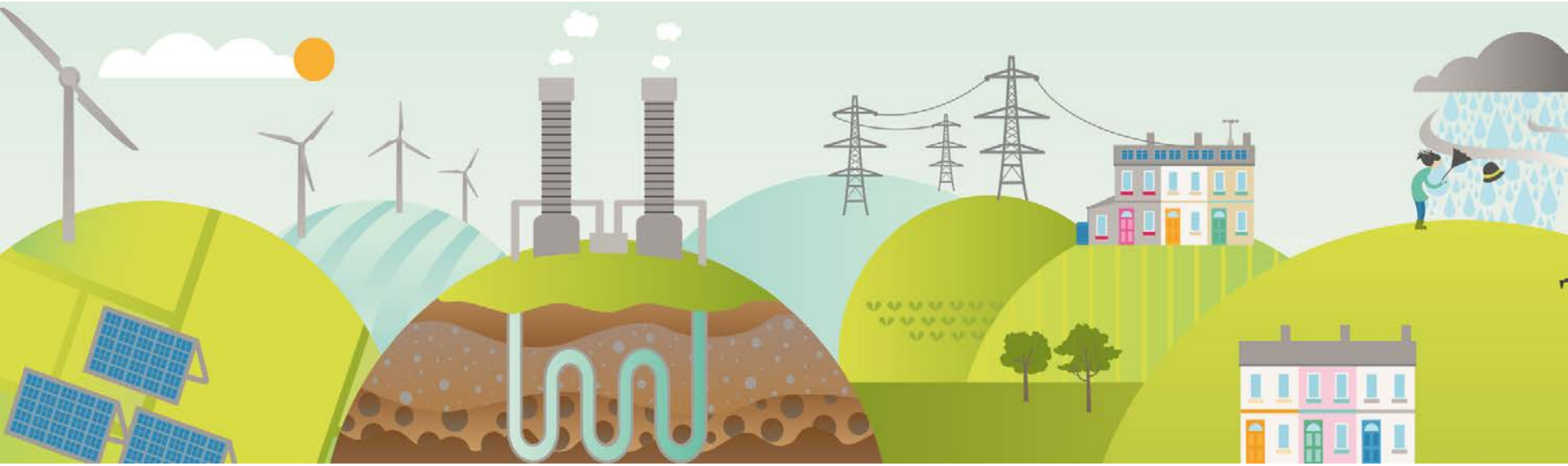
Strengthening demand and encouraging investments in clean technologies and greening the economy:

THE ROLE OF THE ENVIRONMENTAL PROTECTION AND ENERGY EFFICIENCY FUND IN SUPPORTING ENERGY EFFICIENCY IN BUILDINGS AND TRANSPORT



Vesna Bukarica, Ph.D.

Head of Energy Efficiency Sector

About the Fund

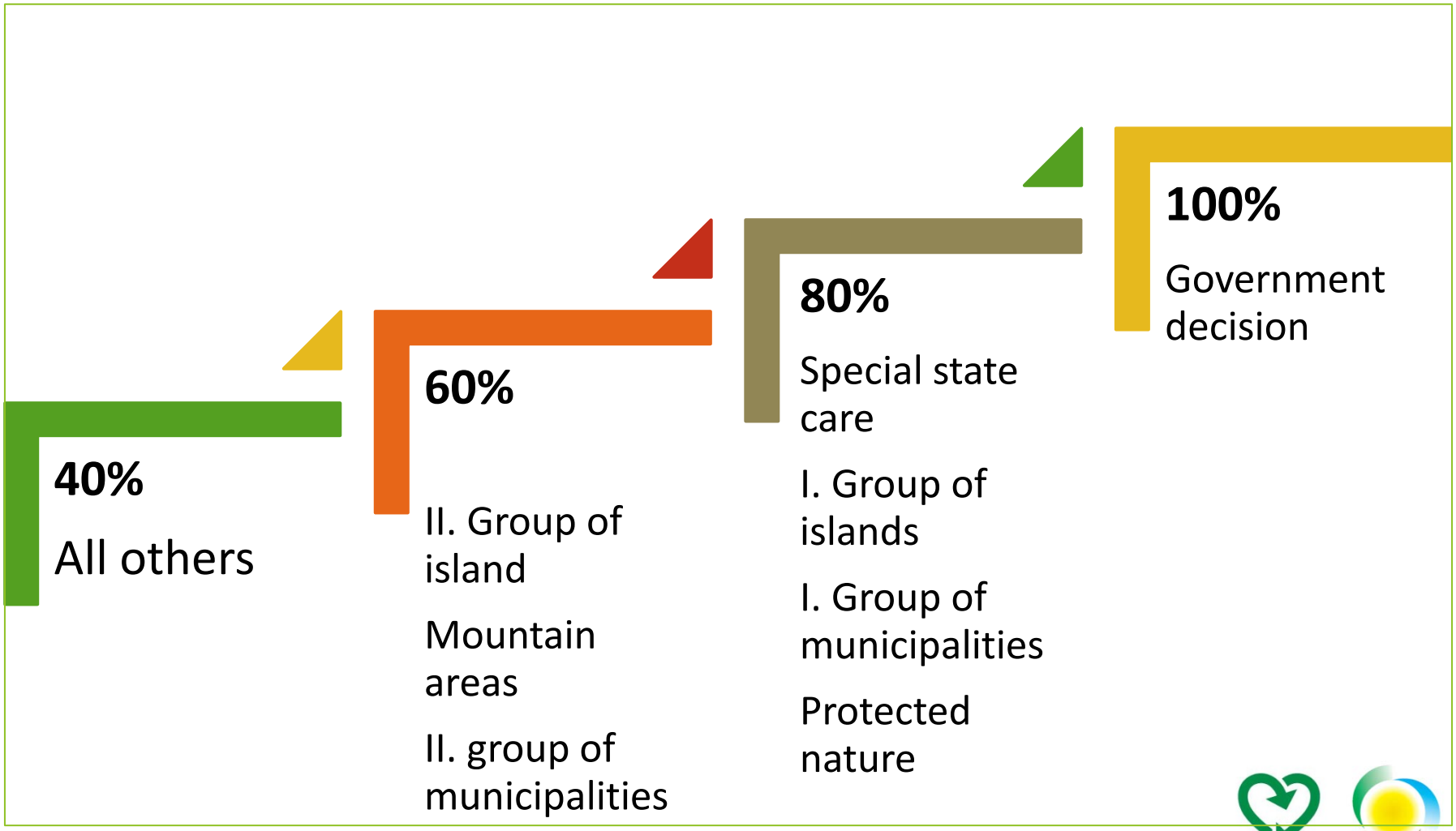
- Established at the end of 2003 by the **Act on the Environmental Protection and Energy Efficiency Fund**
- **Extra-budgetary public institution**
- Goal:
  - ensuring financial means for supporting (co-financing) environmental protection, EE and RES projects
  - **obliged to co-finance measures defined in the NEEAP by the Act on Energy Efficiency**
- Mechanism – **polluter pays principle!**
  - environmental charges: emissions of CO2, SO2 and NOx; waste; special charge on motor vehicles
  - incomes from ETS
  - EU funds

Incomes and allocation

- Income in 2015:
  - 1,6 billion HRK (**211,3 million EUR**)
- Users
  - Local and regional authorities, public institutions and bodies, companies and entrepreneurs, CSOs, citizens
- Types of incentives
  - Loans: 0% interest rate, period of 5 years (grace period 2 years)
  - Grants

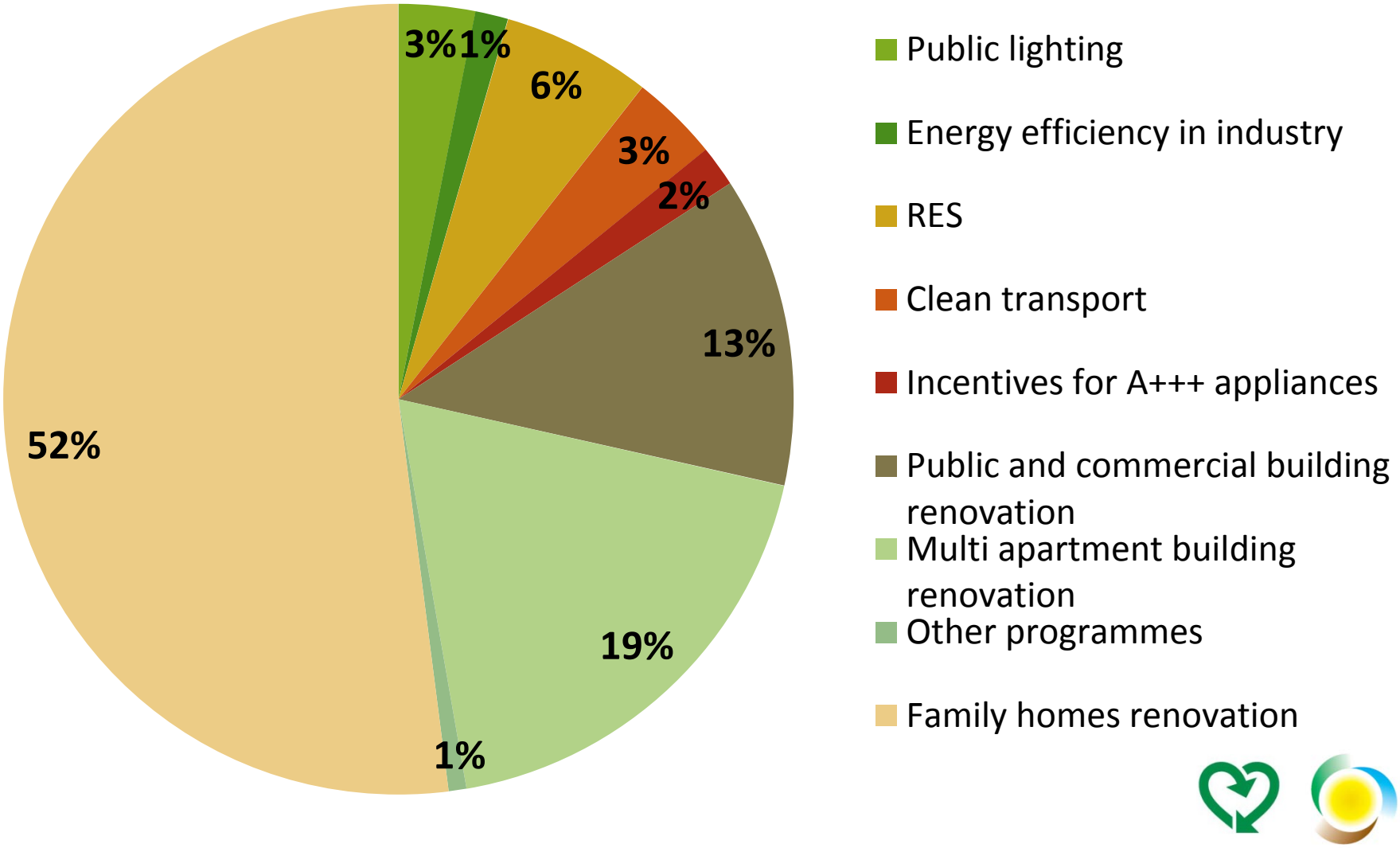
Available incentives

Absolute amount determined in every tender/call

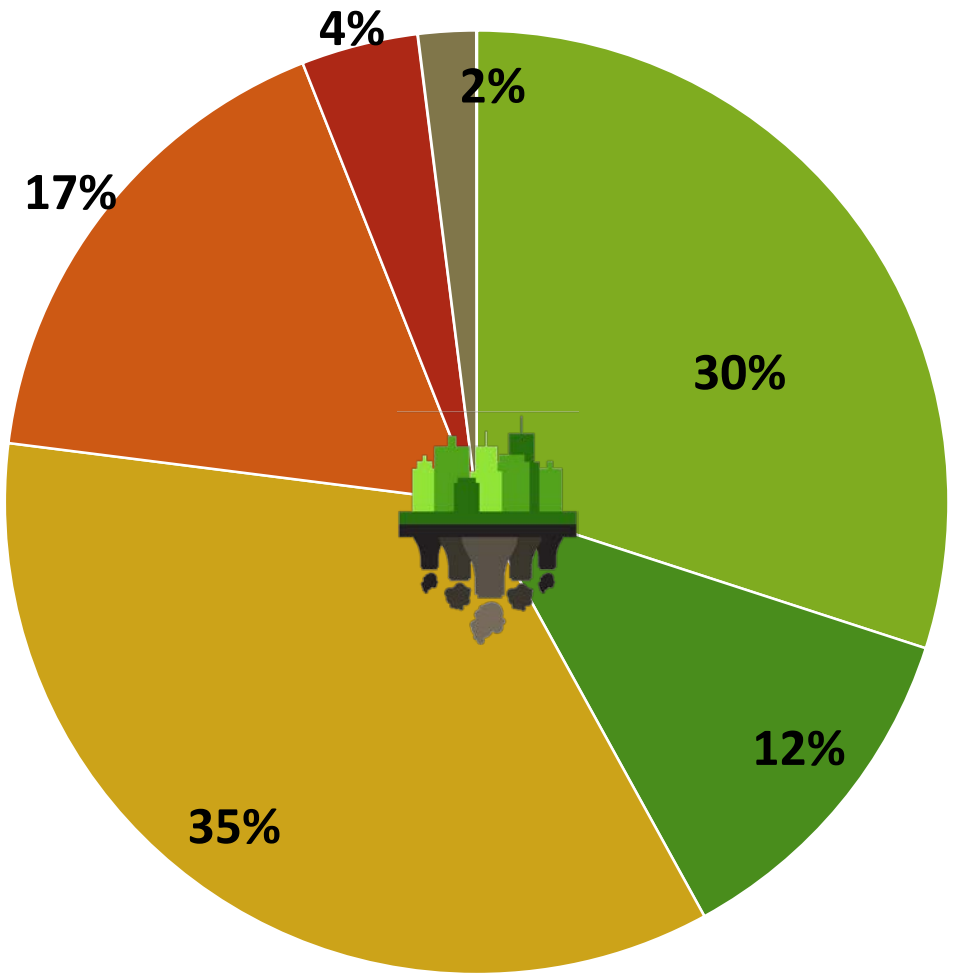


Investments in EE and RES in 2015

960 million HRK (127 M€) allocated for EE and RES projects



Why residential and transport energy efficiency?



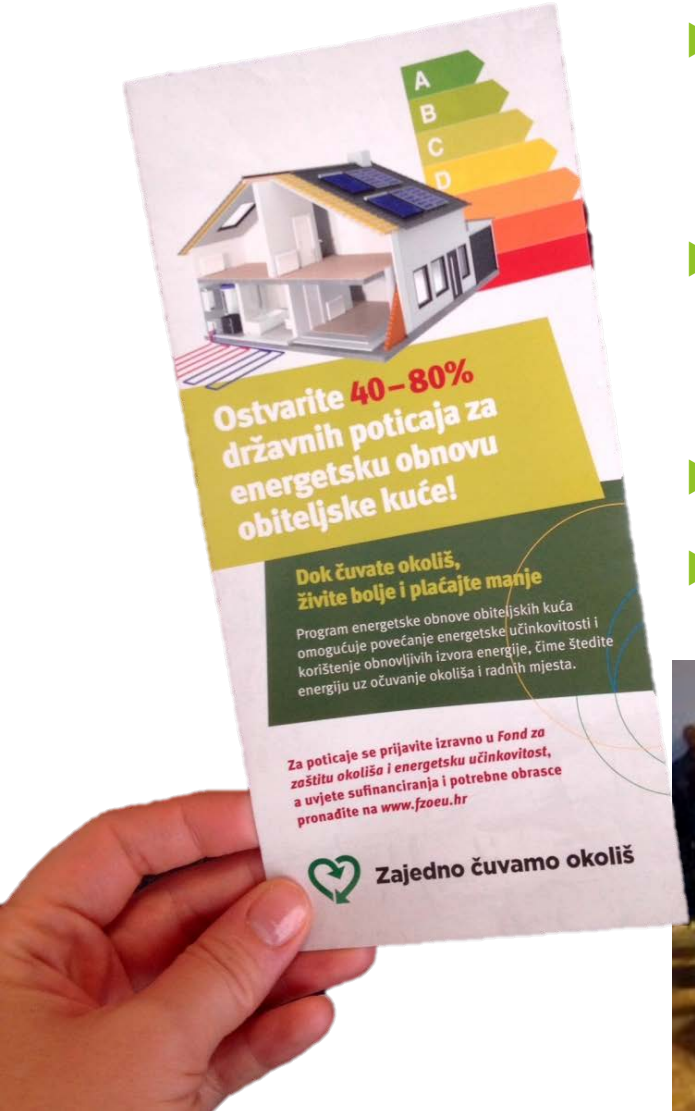
- Residential buildings
- Non-residential buildings
- Transport
- Industry
- Agriculture
- Construction

Energy renovation of family homes

- **WHY?**
  - 48.4% of all buildings in Croatia = family homes
- **HOW?**
  - In 2010, 48% of citizens believed they could reduce their energy use by implementing some of EE measures
  - Barriers: inadequate knowledge and lack of financial support
  - The Fund financed citizens in cooperation with local and regional government
  - 2014 - the Croatian Government started the Programme
  - 2015 - the Programme was modified, the citizens can apply directly to the Fund
  - Citizens can get **40**, **60** or even **80%** of investment in EE measures

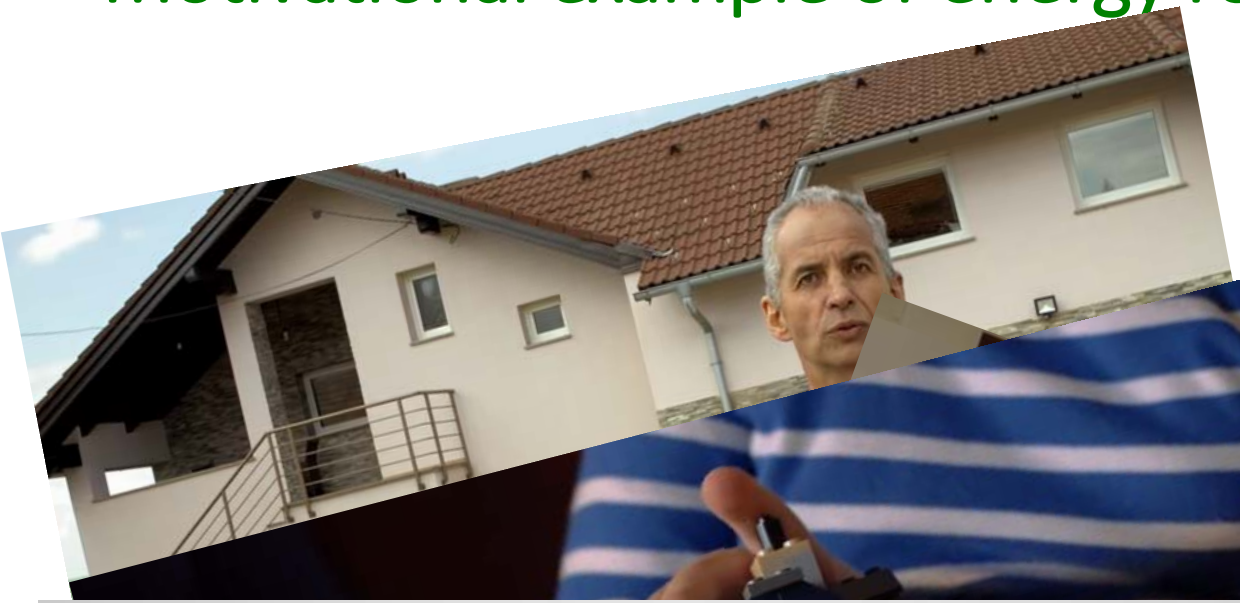
Energy renovation of family homes

- Campaign included:



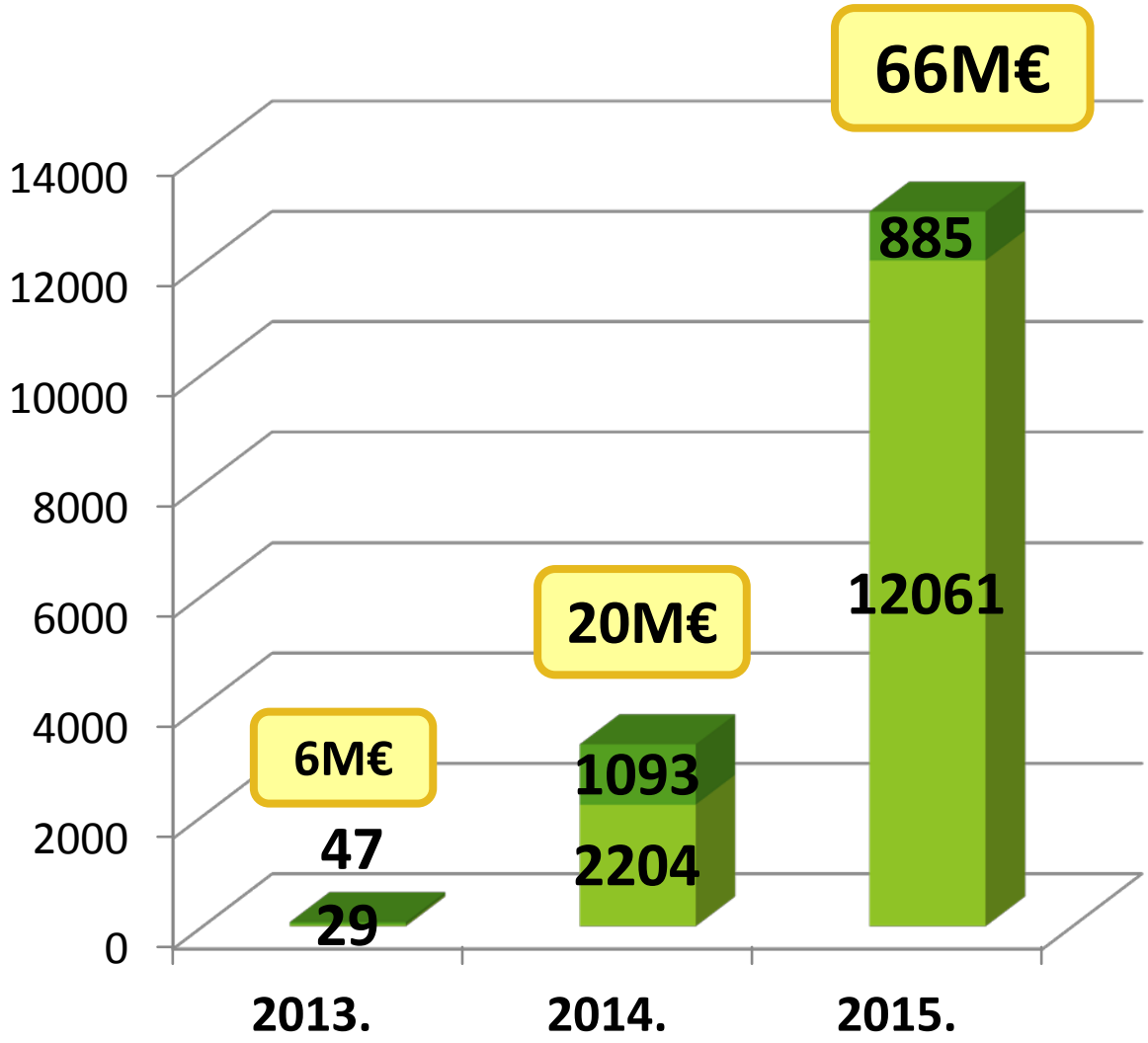
- **Promotional video:** a motivational family story – an example of a successful renovation - aired on national television and via social media
- **Informative leaflets** with information on energy efficiency and measures that can be financed
- **More that 30 public events** throughout Croatia
- **Info office** and **toll free line** for citizens

Motivational example of energy renovation



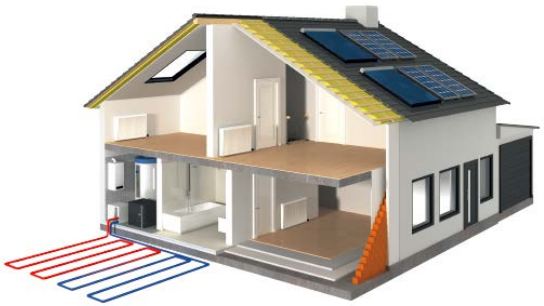
Best practice examples

The results: 2013 – 2015



Home renewable energy system

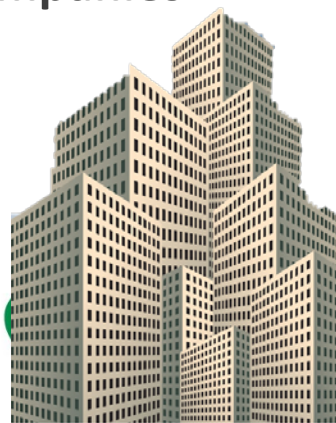
Energy efficiency measures



Energy renovation of apartment buildings

- **WHY?**
  - 26.2% of all buildings in Croatia = multi apartment buildings
  - 65% of them located in the continental part

- **HOW?**
  - The Fund finances: energy audits and certificates, project documentation for energy renovation, the renovation itself and the installation of individual heat metering devices
  - The Fund financed citizens through **property management companies**
  - The Programme started in 2014
  - Financing with **40, 60 or 80%** (documentation 100%)



Energy renovation of multi residential buildings

- Campaign included:

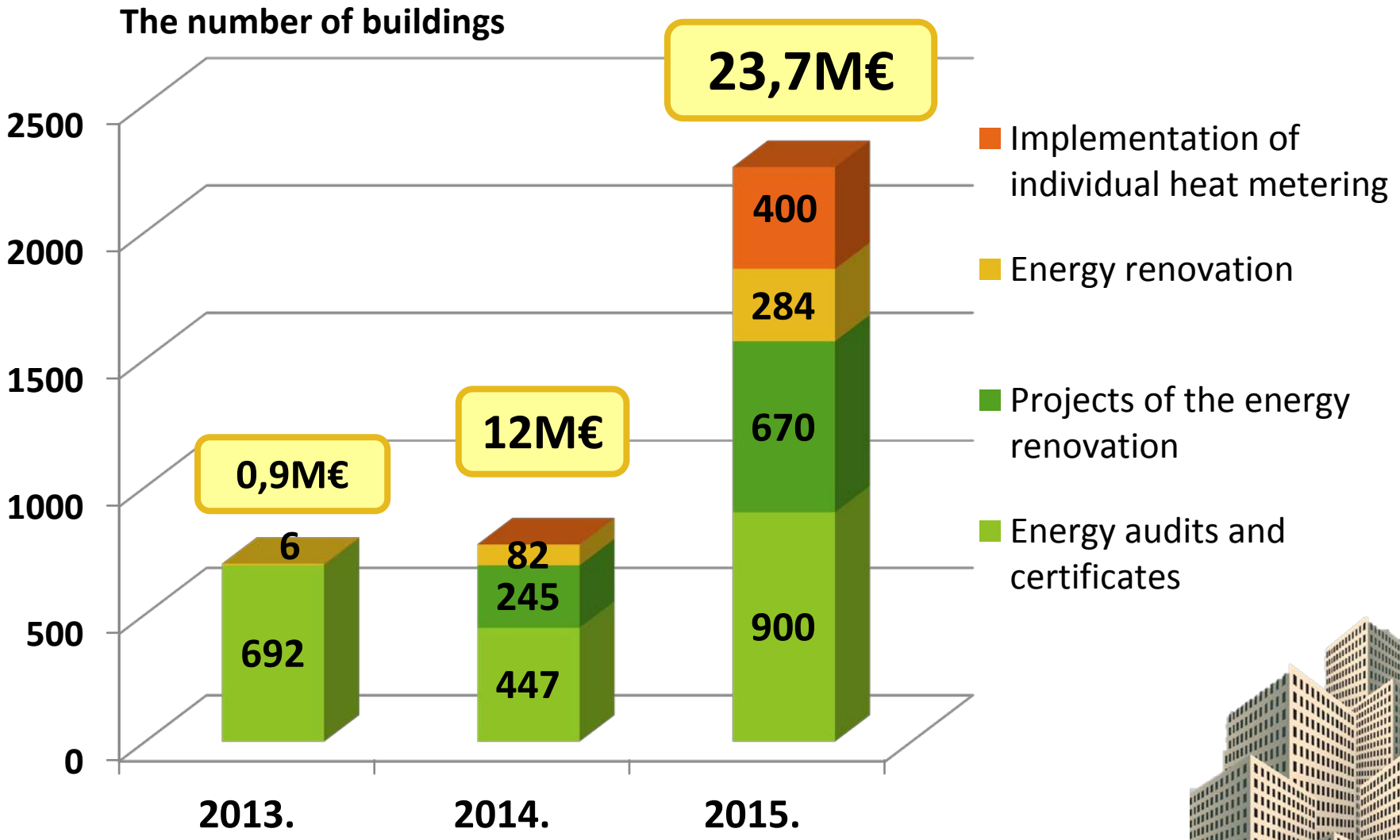
- **Informative leaflets** with information on energy efficiency and measures that can be financed
- **Workshops** with property management companies
- More than **30 events** throughout Croatia
- **Info office** and **toll free line** for citizens

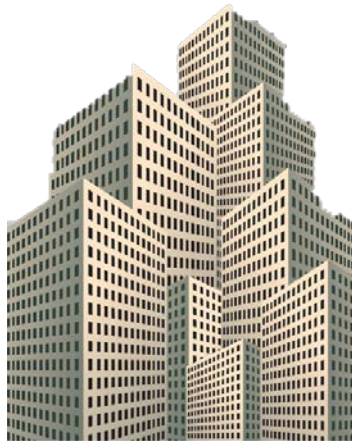
Best practice examples

Energy saved:

79%

The results: 2013 – 2015





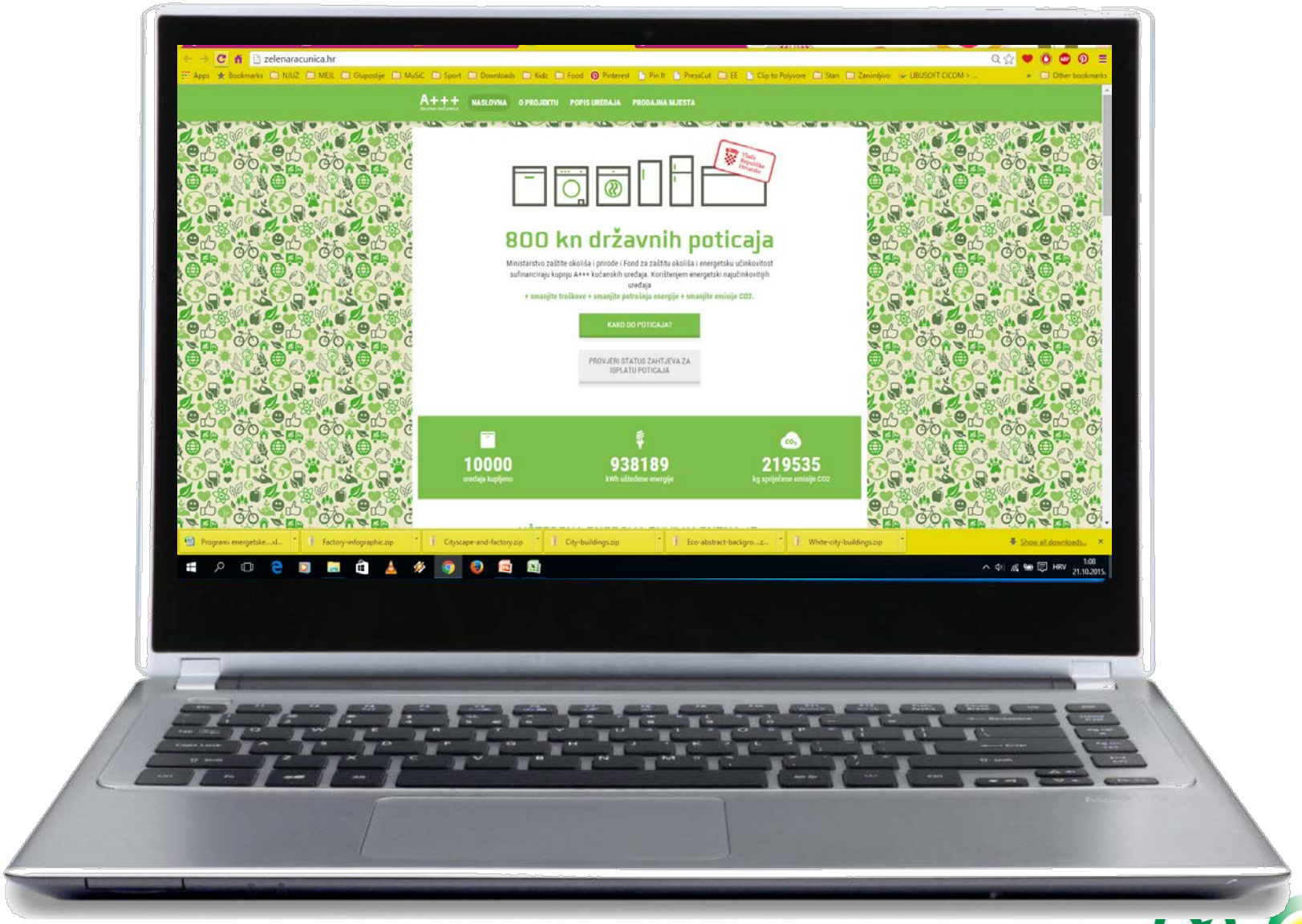
Incentives for the most energy efficient household appliances (A+++)

- **WHY?**
  - 20% of energy in households is used for running appliances
  - A+++ appliances spend 30-60% less energy than appliances in the A energy class
  - About 180,000 appliances are bought in Croatia each year

- **HOW?**
  - Enabling incentives for A+++ appliances:

    1 person = 1 standard incentive = 800 kuna (about 105€)

The website

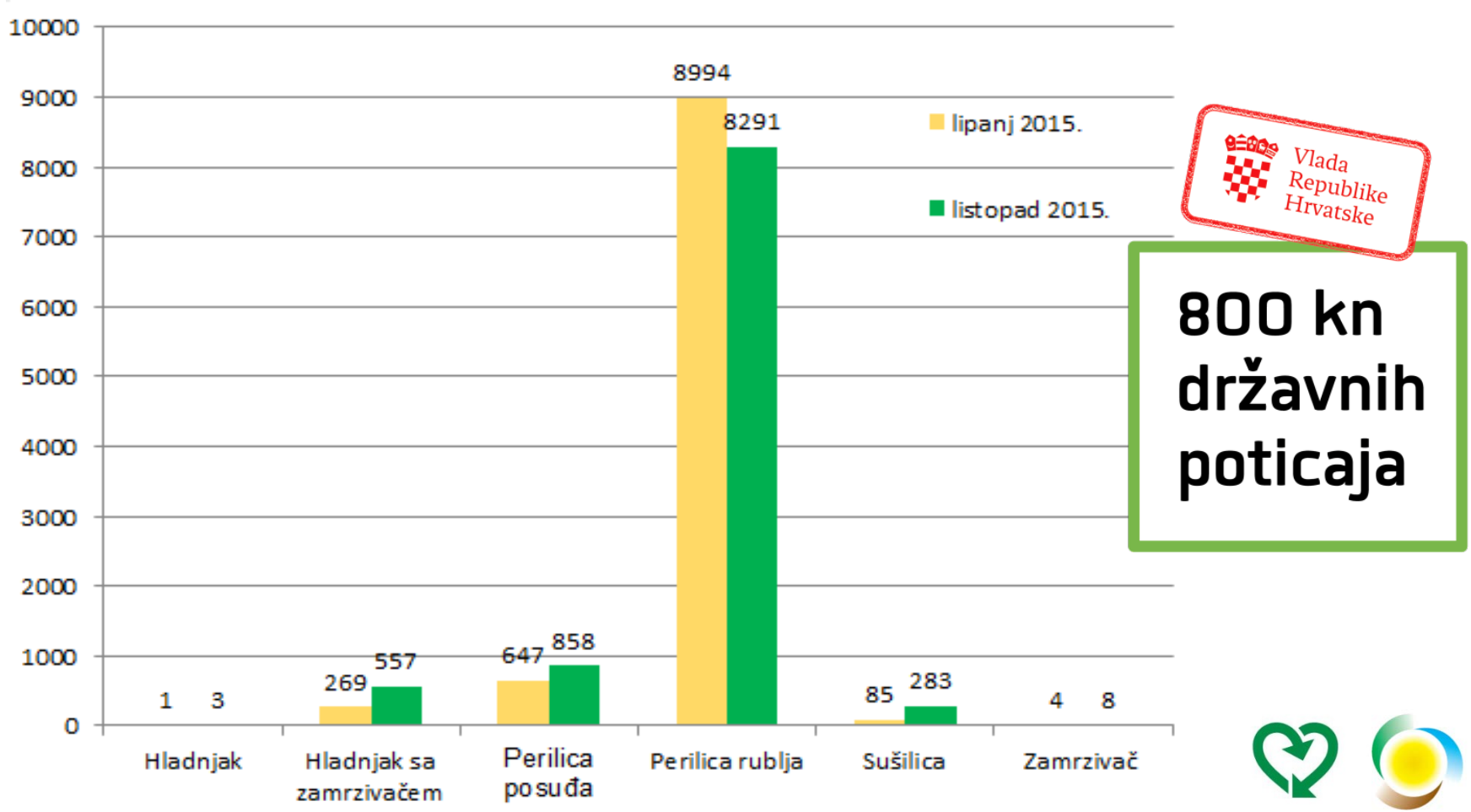

zelenaracunica.hr
A+++
NASLOVNA
O PROJEKTU
POPIS UREĐAJA
PRODAJNA MJESTA
800 kn državnih poticaja
Ministarstvo zaštite okoliša i prirode i Fond za zaštitu okoliša i energetsku učinkovitost sufinanciraju kupnju A+++ kućanskih uređaja. Korištenjem energetski najučinkovitijih uređaja
+ smanjite troškove + smanjite potrošnju energije + smanjite emisije CO2.
KAKO DO POTICAJA?
PROVJERI STATUS ZAHTJEVA ZA ISPLATU POTICAJA
10000
uređaja kupljeno
938189
kWh uštedene energije
219535
kg spriječene emisije CO2

Leaflet, brochure and the folder for the bill

Examples of A+++ branding

Results

- **20,000** appliances – 16 million kuna (2.1 M€)
- 9 days in June and only 1 day in October!

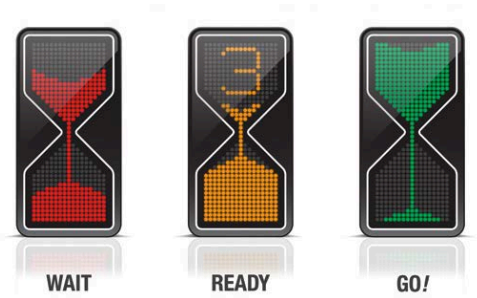


Vlada Republike Hrvatske

800 kn državnih poticaja

Programme for cleaner transport

- Sustainable urban mobility plans
- Eco-driving (pilot project: 8 to 18% savings)
- Electric and hybrid vehicles
  - **41.5 Mkn** (5.5 M€) approved, **668 vehicles** already purchased:
    - 109 electric + 9 PHEV + 550 hybrid
- Other measures: conversion to CNG or electric, charging stations, public bicycle systems, electric bicycles, optimising distribution routes, intelligent traffic signalisation



Incentives for electric and hybrid vehicles

Incentives for electric and hybrid vehicles

- Co-financing the purchase of electric and hybrid vehicles:
  - Electric car – **HRK 70.000**
  - Plug-in hybrid car – **HRK 50.000**
  - Hybrid car with CO_2 emissions up to 90 g CO_2/km – **HRK 30.000**
  - Electric scooter / motorcycle – from **HRK 7.500** to **10.000**
  - Electric quadricycle (quad bike) – up to **HRK 30.000**

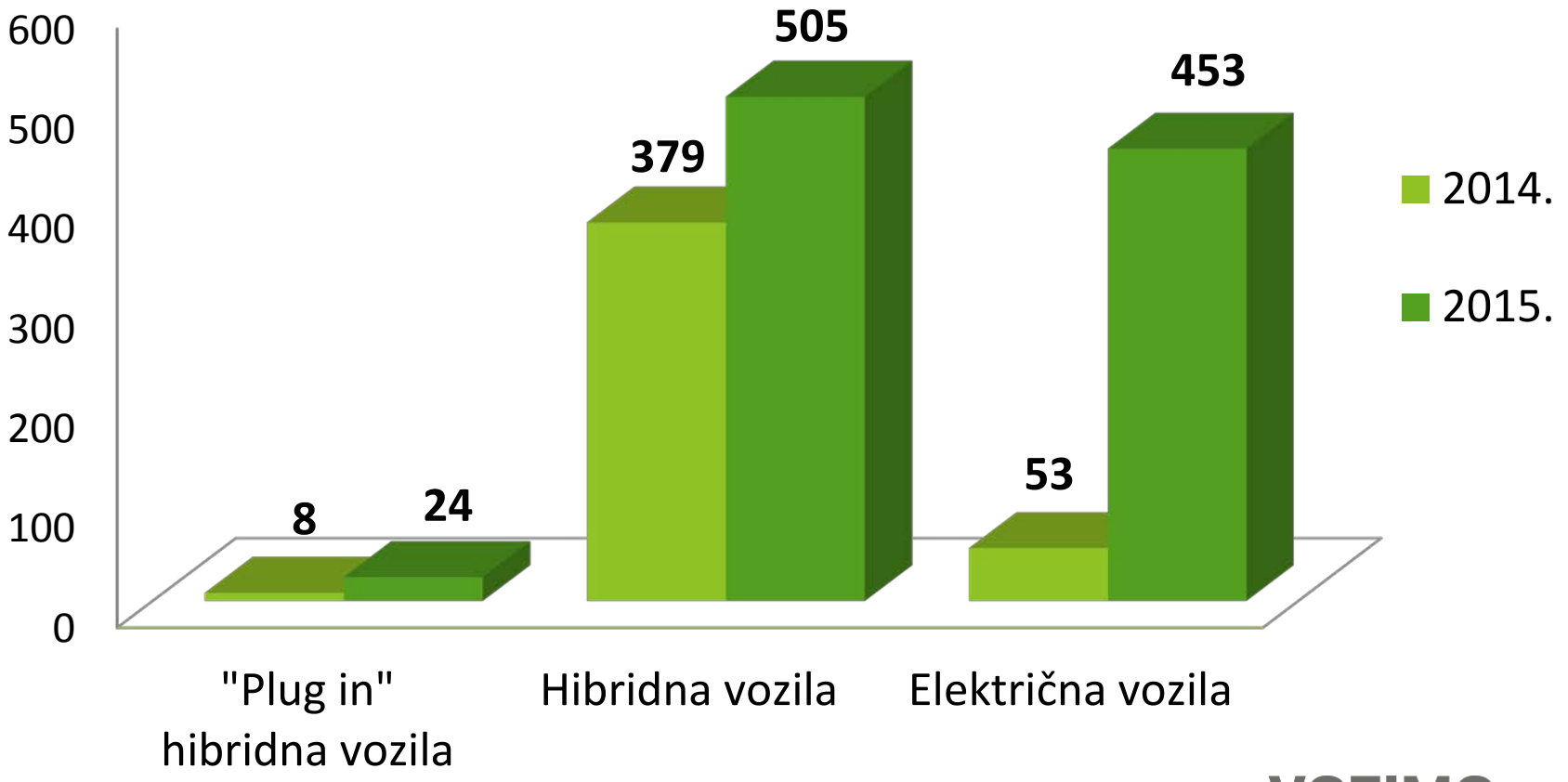
2014. approved **HRK 15.5 million**

2015. approved **HRK 26 million**

VOZIMO EKONOMIČNO

www.mzoip.hr
www.fzoeu.hr

Incentives for electric and hybrid vehicles



VOZIMO EKONOMIČNO
www.mzoip.hr
www.fzoeu.hr

Best practice examples

Approved in 2015:

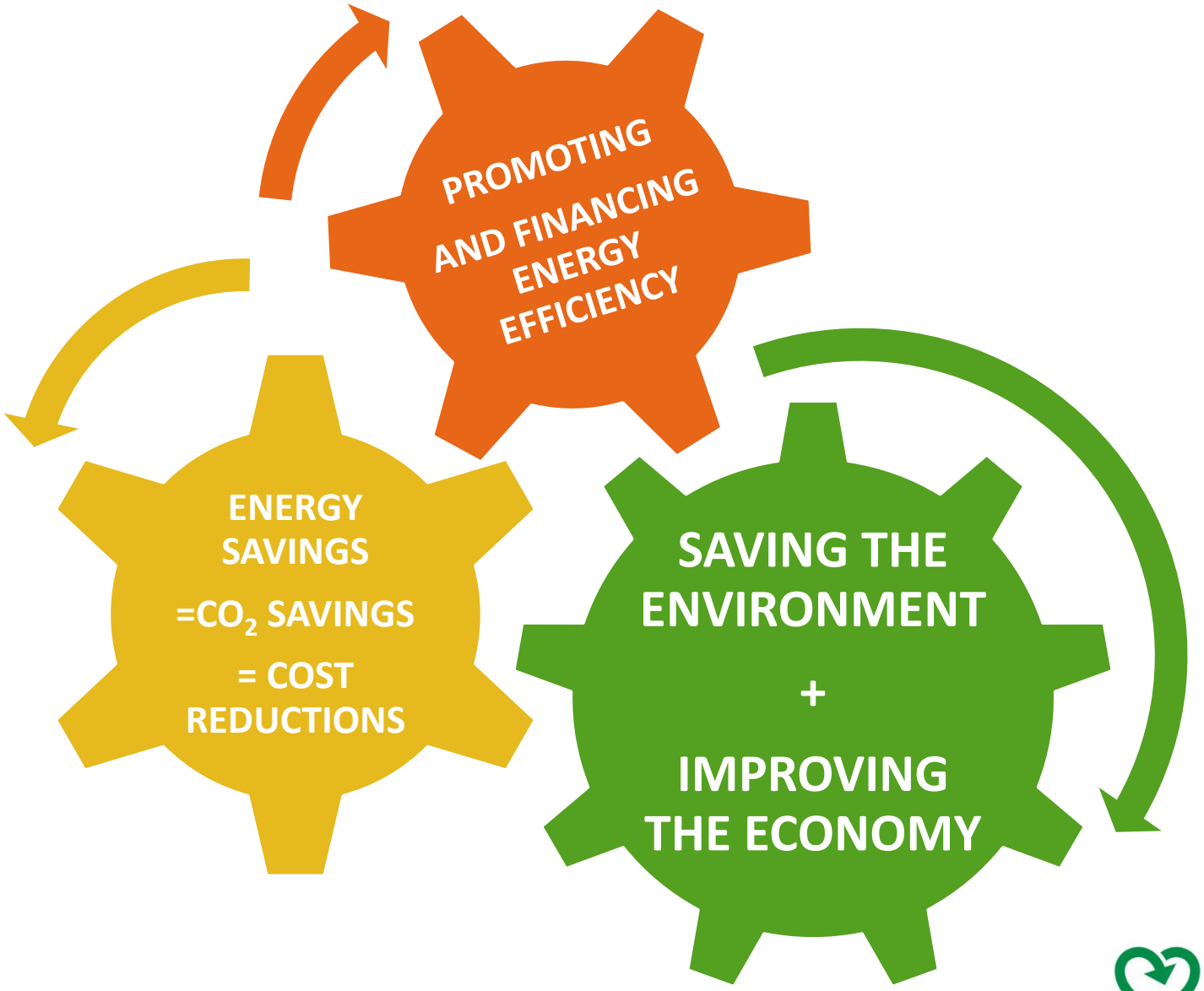
127 million €

Generate investments worth

264 million €

1 kn of incentives → **2,1** kn of investments

To conclude…


PROMOTING
AND FINANCING
ENERGY
EFFICIENCY
ENERGY
SAVINGS
=CO_2 SAVINGS
= COST
REDUCTIONS
SAVING THE
ENVIRONMENT
+
IMPROVING
THE ECONOMY

Thank you!

For more information, please visit

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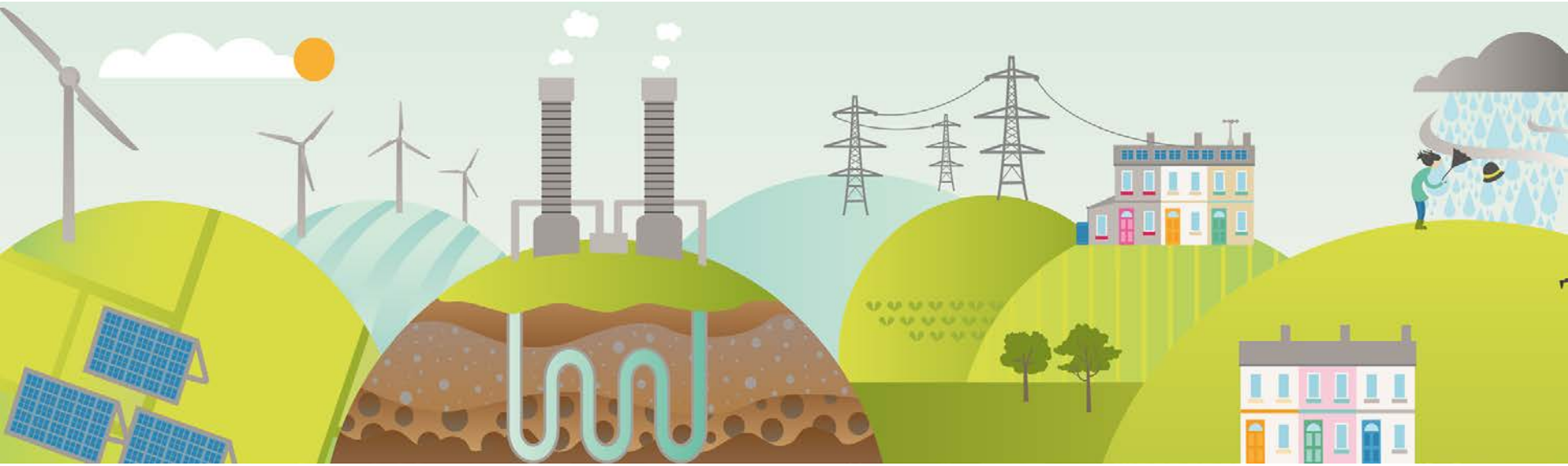
kontakt@fzoeu.hr