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

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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

40%
All others

60%
II. Group of island
Mountain areas
II. group of municipalities

80%
Special state care
I. Group of islands
I. Group of municipalities
Protected nature

100%
Government decision
Investments in EE and RES in 2015

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

- Public lighting: 3%
- Energy efficiency in industry: 1%
- RES: 6%
- Clean transport: 3%
- Incentives for A+++ appliances: 3%
- Public and commercial building renovation: 2%
- Multi apartment building renovation: 13%
- Public and commercial building renovation: 19%
- Other programmes: 1%
- Family homes renovation: 52%
Why residential and transport energy efficiency?

- Residential buildings: 30%
- Non-residential buildings: 17%
- Transport: 4%
- Industry: 2%
- Agriculture: 12%
- Construction: 35%
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 than 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:
  - 2013: 6M€
  - 2014: 20M€
  - 2015: 66M€

- Energy efficiency measures:
  - 2013: 2204
  - 2014: 1093
  - 2015: 885
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

The number of buildings

- Implementation of individual heat metering
- Energy renovation
- Projects of the energy renovation
- Energy audits and certificates

<table>
<thead>
<tr>
<th>Year</th>
<th>Buildings</th>
<th>Cost (M€)</th>
</tr>
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<tbody>
<tr>
<td>2013</td>
<td>692</td>
<td>0.9</td>
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<tr>
<td>2014</td>
<td>447</td>
<td>12</td>
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<tr>
<td>2015</td>
<td>245</td>
<td>23.7</td>
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</table>
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
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!**
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 CO₂ emissions up to 90 g CO₂/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
Incentives for electric and hybrid vehicles

- "Plug in" hibridna vozila: 8 in 2014, 24 in 2015
Best practice examples
Approved in 2015: 127 million €

Generate investments worth 264 million €

1 kn of incentives  \(\rightarrow\) 2,1 kn of investments
To conclude...

SAVING THE ENVIRONMENT
+ IMPROVING THE ECONOMY

ENERGY SAVINGS = CO₂ SAVINGS = COST REDUCTIONS

PROMOTING AND FINANCING ENERGY EFFICIENCY
Thank you!

For more information, please visit

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