



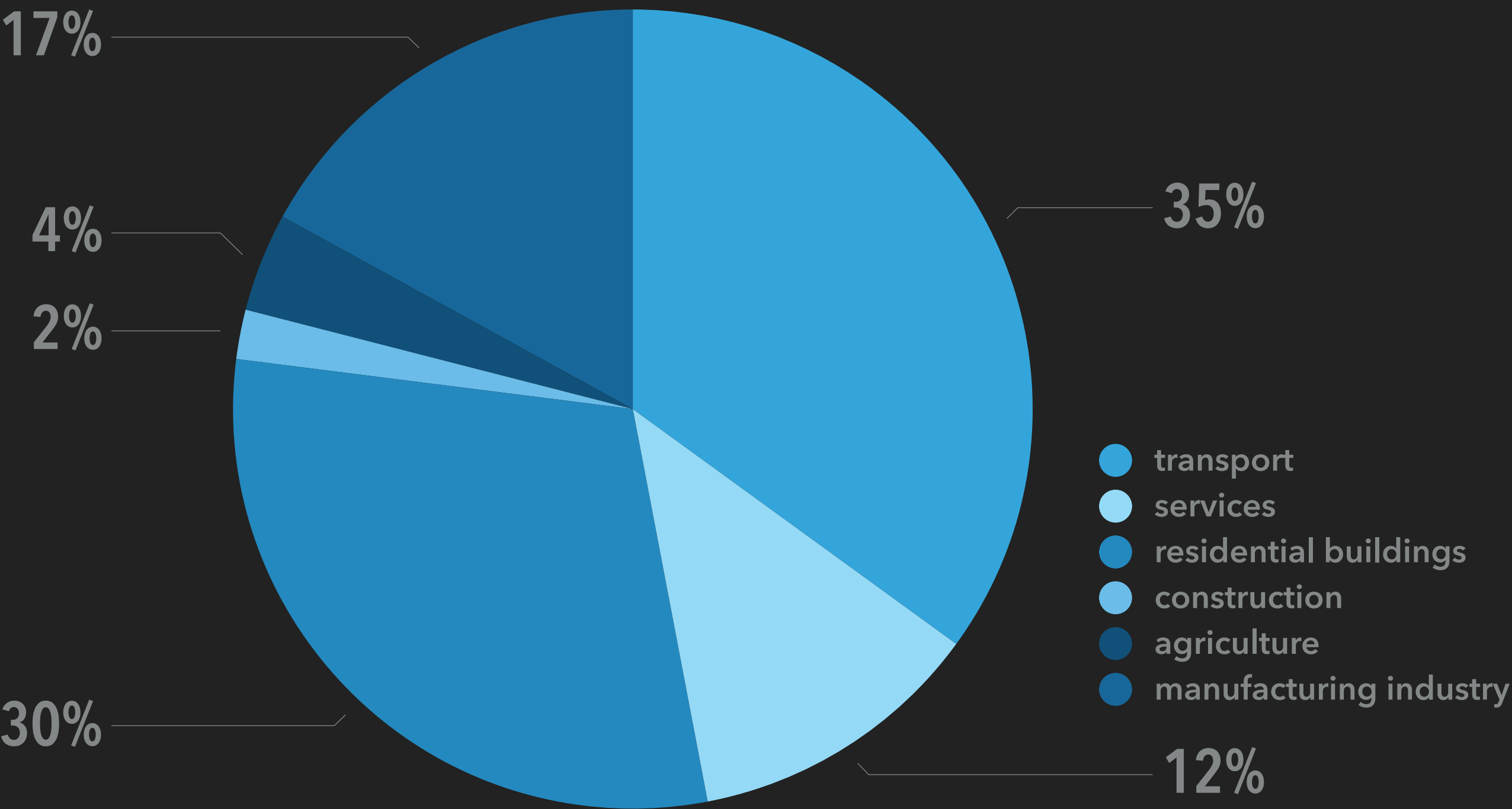
FOND ZA ZAŠTITU OKOLIŠA I
ENERGETSKU UČINKOVITOST

MLADEN ILIJEVIĆ, DIPL. ING. ARH.

EPEEF TEAM FOR ENERGY RENOVATION OF RESIDENTIAL BUILDINGS

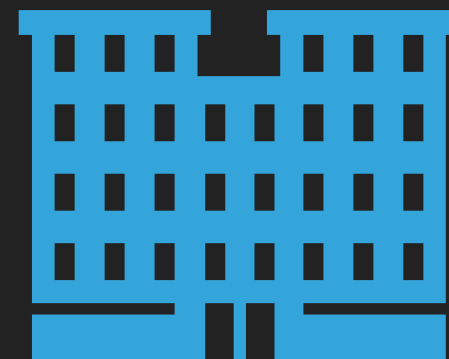
ENERGY RENOVATION OF RESIDENTIAL BUILDINGS IN CROATIA

SHARE OF **BUILDINGS & INDUSTRY** IN TOTAL ENERGY CONSUMPTION IN CROATIA



ENERGY RENOVATION PROGRAMMES

- ▶ **The Ministry of Construction and Physical Planning** developed two energy renovation programmes for residential buildings (2014-2017)



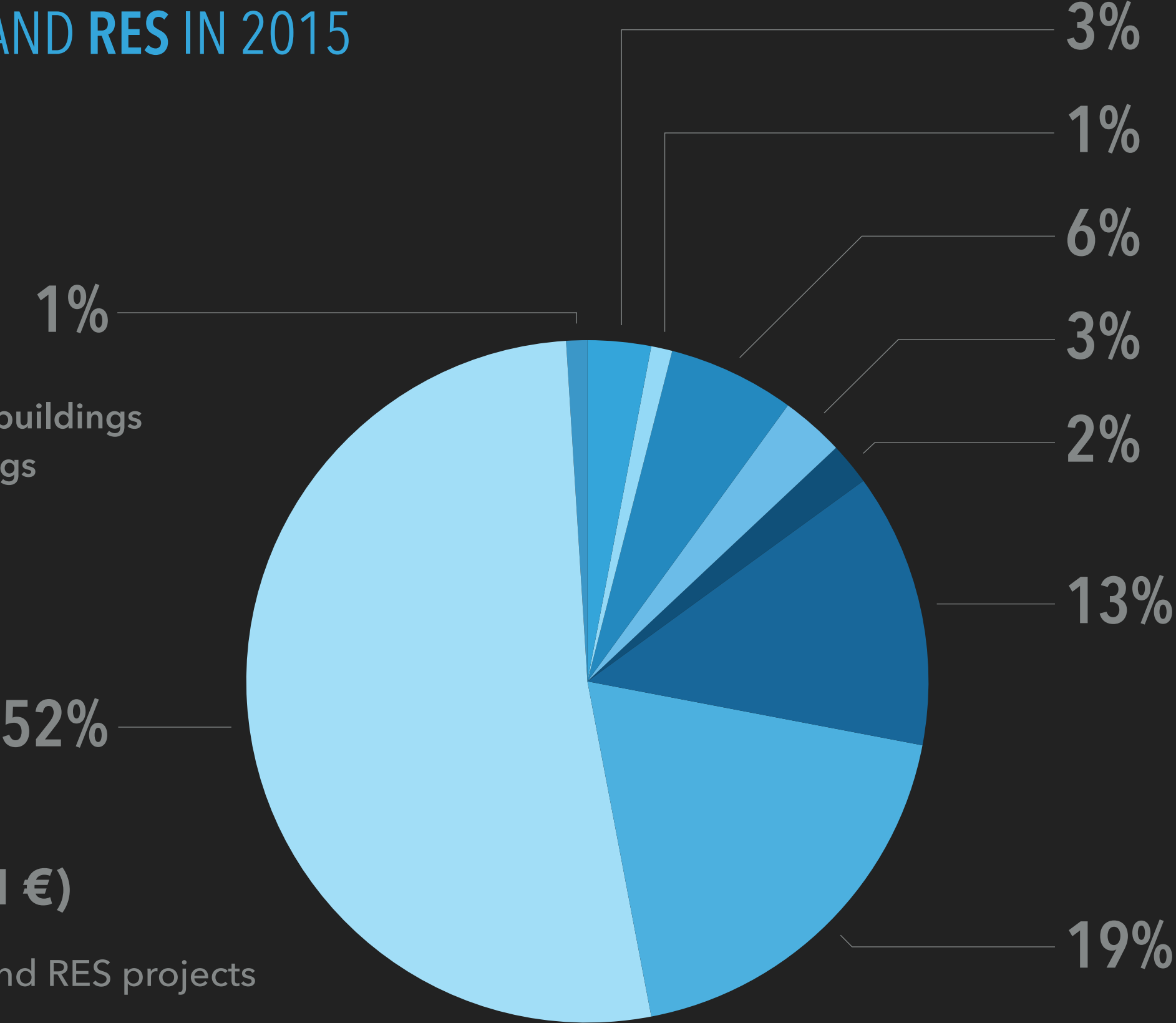
- ▶ The implementation has been entrusted to the **Enviromental Protection and Energy Efficiency Fund**

ENVIROMENTAL PROTECTION AND ENERGY EFFICIENCY FUND

- ▶ Established in 2003 by the **Act of Enviromental Protection and Energy Efficiency Fund**
- ▶ **Extra-budgetary** public institution
- ▶ Goal:
 - Ensuring financial means (*supporting and co-finnancing*)
 - Obligated to co-finance measures (*NEEAP*)
- ▶ Mechanism:
 - **POLLUTER PAYS PRINCIPLE**
 - Enviromental charges
 - Incomes from ETS
 - EU funds

INVESTMENTS IN EE AND RES IN 2015

- public lighting
- EE in industry
- RES
- clean transport
- A+++ appliances
- public and commercial buildings
- multi-apartment buildings
- family homes
- other



960M HRK (127M €)

- Total allocation for EE and RES projects

ENERGY RENOVATION OF FAMILY HOMES

► WHY?

- 48.4% of all buildings in Croatia

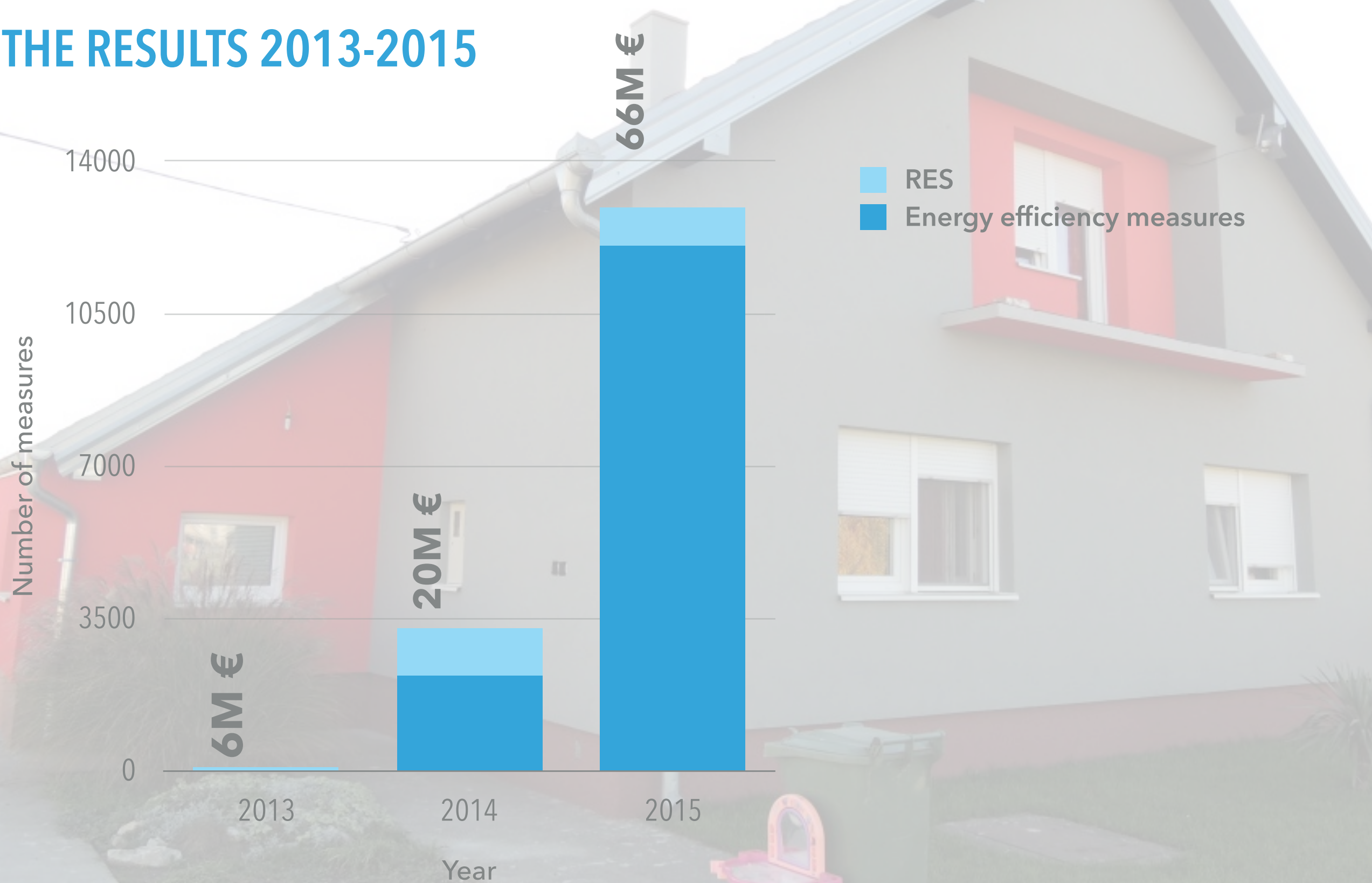
► HOW?

- overcoming barriers
- In co-operation with local and regional government (2014)
- Directly through application to the Fund (2015)

► WHAT?

- Thermal renovation of envelope, heating systems, RES

THE RESULTS 2013-2015



ENERGY RENOVATION OF MULTI-APARTMENT BUILDINGS

► WHY?

- 26.2% of all buildings in Croatia

► HOW?

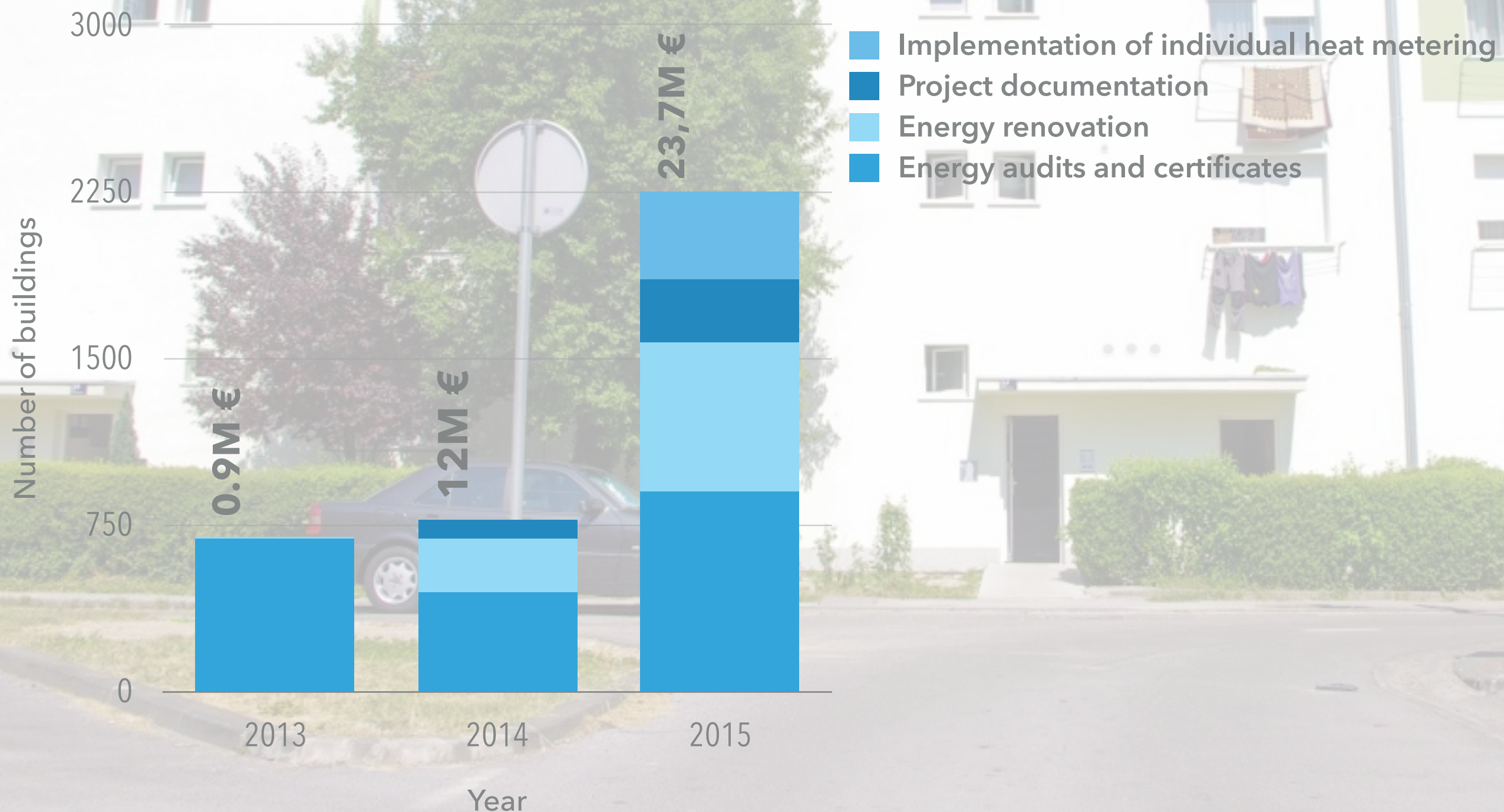
- Through property management companies
- Financing technical documentation
- Financing implementation of measures (EE and RES)

► WHAT?

- Energy audits and certificates
- Project documentation for energy renovation
- Thermal renovation of envelope, heating systems, RES
- The instalation of individual Heat metering devices

PROGRAMMES FOR RESIDENTIAL BUILDINGS

THE RESULTS 2013-2015



**127M €
APPROVED
IN 2015**



**264M €
GENERATED
INVESTMENTS**

FROM 2016 FURTHER ON

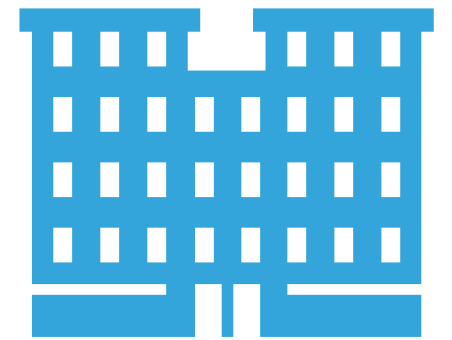
- ▶ Further co-financing by 2020 from EU funds
 - **Operational Programme Competitiveness and Cohesion** (OPCC) 2014.-2020.
 - **Priority axis 4:** PROMOTING ENERGY EFFICIENCY AND RENEWABLE ENERGY SOURCES
 - **Investment priority 4c:** Supporting EE and RES in public buildings and housing sector (ERDF 311M €)
 - **specific objective 4c2** - deals with reduction of energy consumption of the residential buildings
- ▶ Specific objective 4c2 – planned allocation **100M €**
(70M € for multi-residential buildings, 30M € for family houses)
- ▶ Financed from the **European Regional Development Fund**

FAMILY HOMES



- ▶ based on the OPCC, Croatia has available for purposes of energy renovation of family houses the amount of **30 million euro, BUT:**
 - ▶ **Regulation (EU) No 1303/2013** of the European Parliament and of the Council of 17 December 2013.: Article 2 point 10, the Regulation **does not** envisage the possibility for natural persons to be beneficiaries of funds from the ERDF.
- ▶ An amendment to the provision of Article 2 was initiated by the **Ministry of construction and physical planning through official representatives** of the Republic of Croatia in the bodies of the European Union
- ▶ the Call will promote an integrated approach through which a minimum of **50%** of energy savings for heating/cooling will have to be achieved
- ▶ **It is envisaged to have the Call published in 2018**

MULTI-APARTMENT BUILDINGS



- ▶ based on the **OPCC**, for purposes of energy renovation of multi-apartment buildings Croatia had available the amount of **70M €**
- ▶ **1st call** - published 17.10.2016, closed on 31.1.2017
- ▶ The initial budget of the call - 20.267.000 €
- ▶ The **EPEEF** had two roles:
 - ▶ Energy Efficiency Sector was appointed as a **technical assistance** (*a team of experts gathered within the Sector, with previous experience of working on renovation programmes; the main goal was to assist the potential users in preparing their projects and ensuring the visibility of the programme*)
 - ▶ IB 2 is appointed for evaluation of projects and their further processing

RESULTS OF 1ST CALL

- ▶ Checked over **750** project proposals for more than **100** applicants
- ▶ **648** project proposals officially applied for evaluation
(616 of them pre-checked by technical support)
- ▶ **596** project proposals passed evaluation - almost **92%** of applied projects
- ▶ More than **1.4M** sqm of residential space
- ▶ More than **16.500** households
- ▶ Projected average heating energy savings - **66.8%**
- ▶ Reduction of CO2 emission **20.500** T/year
- ▶ More than **130M €** of investments





ZAPRÁVENÍ
ODKAMNĚ OTHRNOV



CONCLUSION





WWW.FZOEU.HR

VSZ.EU@FZOEU.HR

MLADEN.ILIJEVIC@FZOEU.HR

THANK YOU!