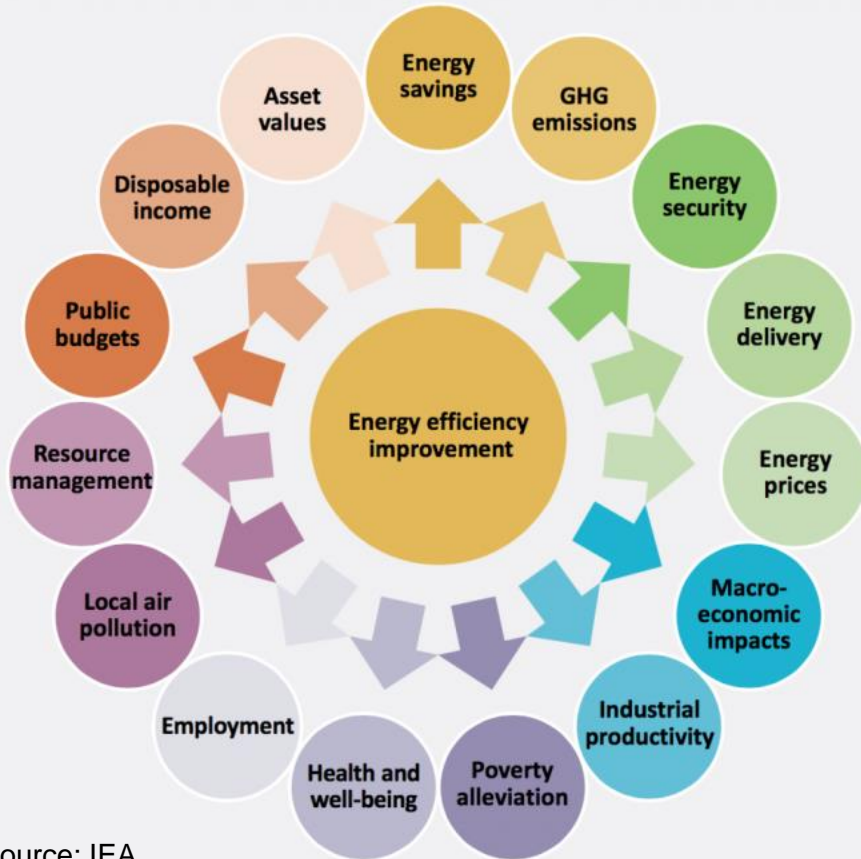


# **Domestic heating and energy efficiency**

**Borko Raicevic, Senior Energy Efficiency Expert**

*Clean Air Regions Initiative - Boot Camp, 9 September 2021*

# MULTIPLE BENEFITS OF ENERGY EFFICIENCY



## ✚ **Energy and financial savings, but also:**

- ✓ Reduction of both indoor and outdoor concentrations of air pollutants (e.g. heating and ventilation systems, insulation)
- ✓ Healthy indoor living environments (ambient air temperatures, humidity and noise level, improved air quality)
- ✓ Poverty alleviation – targeted energy efficiency measures (e.g. retrofits of housing stock)
- ✓ Reduction of primary energy generation -> air pollution (huge long term impact of buildings)
- ✓ Reduction of GHG direct emissions from fossil fuel combustion or consumption, and indirect emissions from electricity generation
- ✓ Positive impact on public budgets: both decreased expenses (operational costs, bills) and increased income (high quality services, employment and economic activities)

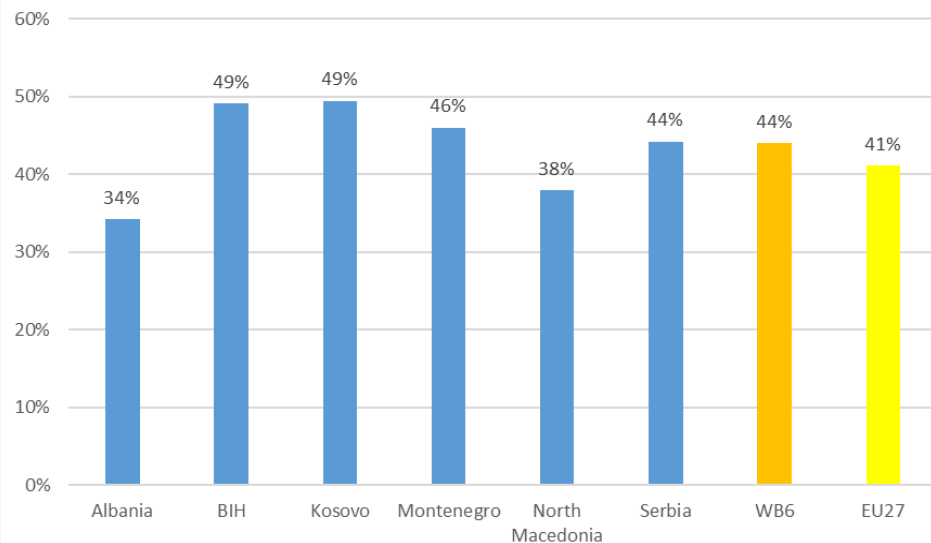
Source: IEA

# ENERGY EFFICIENCY IN BUILDINGS AND HEATING

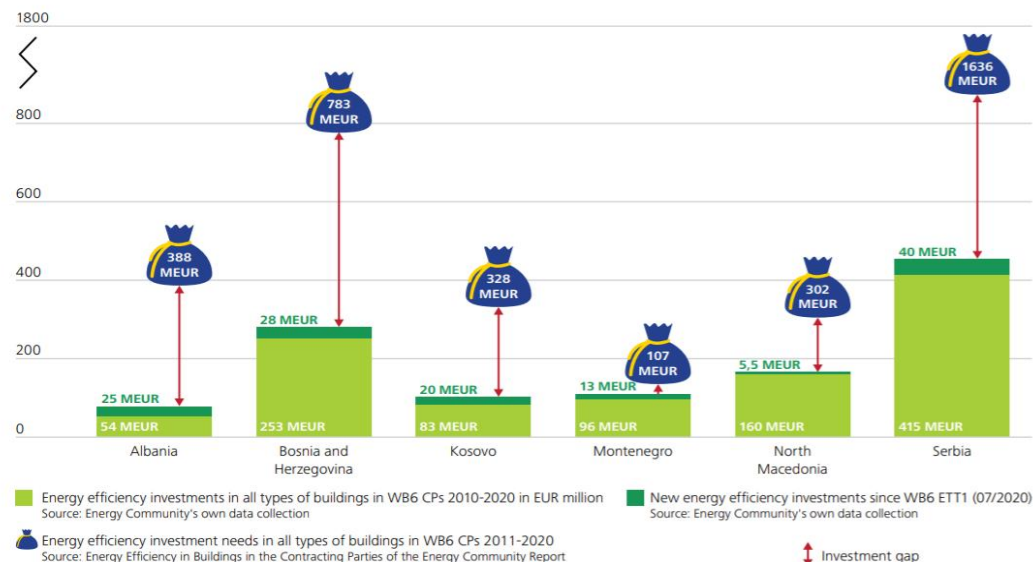
- ✚ **Significant share** of buildings energy consumption in FEC in WB (higher than in EU)
- ✚ **Heating (and cooling)** are the largest energy end-use sector
- ✚ **Domestic heating and hot water** account for up to 80% of total final energy use in households

- ✚ In WB6, **EE investments in buildings increased** in past years
- ✚ However, **only one third** of the estimated investment needs for 2011-2020 **have been met**
- ✚ ECS supports **donors' coordination and the extension of the EU Renovation Wave to the WB**, under the EU Economic and Investment Plan & Green Agenda for the WB6

Buildings' share in final energy consumption, 2018

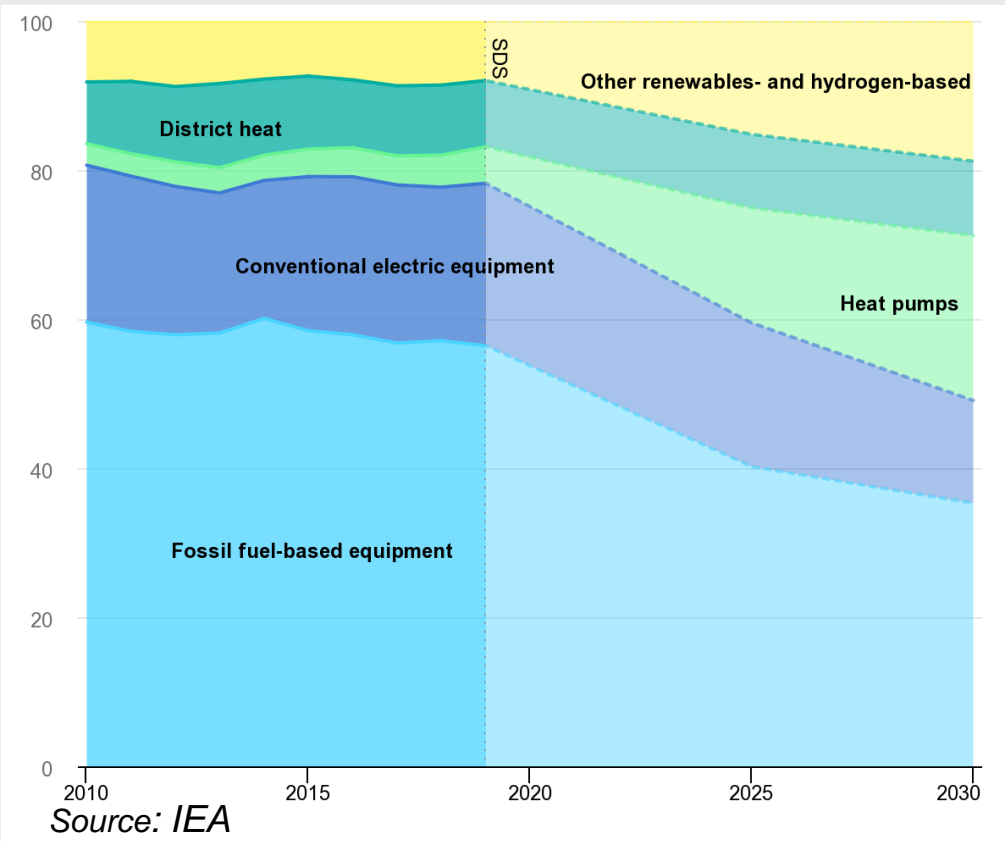


Investment gap in energy efficiency in buildings programmes



# HEATING TECHNOLOGIES

## – 2020 PROGRESS AND TRENDS (IEA )

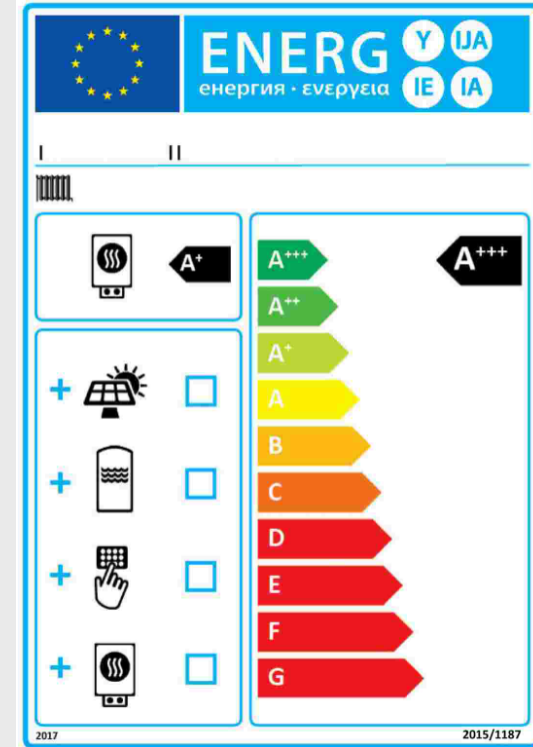
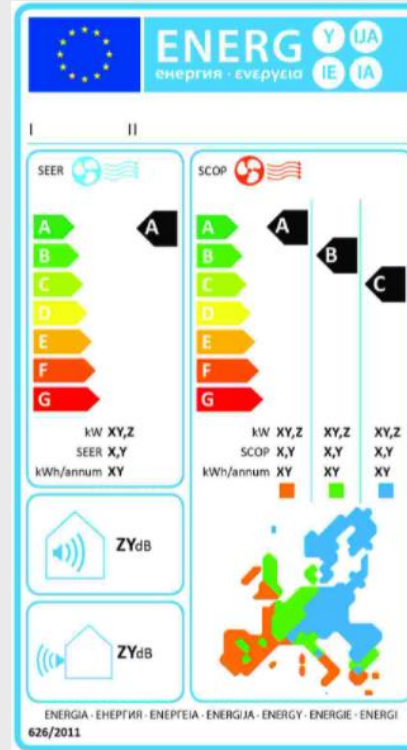


- ✚ *The heating equipment market continues to be dominated by fossil fuel-based equipment and less-efficient conventional electric heating technologies*
- ✚ *To be in line with the IEA SDS, the share of clean heating technologies – heat pumps, district heating, renewable and hydrogen-based heating – needs to more than double to 50% of sales by 2030*
- ✚ *EnC promotes energy efficiency products through **energy labelling and eco-design policy**, as well as **high efficient DH***

# ENERGY LABELLING

## FRAMEWORK LABELLING REGULATION (EU) 2017/1369

874/2012 - Electrical lamps and luminaires (EU 2019 update)	626/2011- Air conditioners and comfort fans	2015/1186- Local space heaters	1060/2010- Household refrigerating appliances (EU 2019 update)
1061/2010- Household washing machines (EU 2019 update)	392/2012- Household tumble driers	1059/2010- Household dishwashers (EU 2019 update)	65/2014- Domestic ovens and range hoods
811/2013- Space and combination heaters	812/2013- Water heaters & storage tanks	1254/2014- Residential ventilation units	2015/1187- Solid fuel boilers
2015/1094- Professional refrigeration	1062/2010- Televisions (EU 2019 update)	665/2013- Vacuum cleaners	



# ECONOMIC AND INVESTMENT PLAN (EIP)

*Response to ongoing COVID-19 crisis and spurring Western Balkan's economic convergence with the EU, underpinned by green and digital transition.*



Source: European Commission



**New Western Balkans Guarantee facility, which can raise investments of up to € 20 billion.**

## The Green Agenda for the Western Balkans

- Informed by the European Green Deal
- Embedded in the EIP
- Endorsed by Western Balkans leaders at Sofia Summit



Source: European Commission

# FLAGSHIP 6 – RENOVATION WAVE



**Over 40% of total energy consumption in the region from the building**

***Renovation wave to decarbonise public and private building stock and address energy poverty***

**Building on existing efforts, e.g. Regional Energy Efficiency Programme**

*Source: European Commission*



*The Commission is now working on operationalising this proposal.*

*Discussed priorities:*

improving the **knowledge base** and raising awareness;

tackling **energy poverty** and worst-performing buildings;

renovating **public buildings**, such as administrative, educational and healthcare facilities

renovating **multi owners buildings**;

improving the legal framework, including the adoption of **national long term renovation strategies**

# EE DIRECTIVES AND EnC 2021-2022 PRIORITIES



## 1. IMPLEMENTATION OF THE ENERGY EFFICIENCY DIRECTIVE

- **EA 1: PLANNING MONITORING AND VERIFICATION OF SAVINGS**
- **EA 2: PROMOTION OF THE EXEMPLARY ROLE OF THE PUBLIC SECTOR**
- **EA 3: ENERGY SERVICES, ENERGY AUDITS AND MANAGEMENT SYSTEMS**
- **EA4: EFFICIENCY IN ENERGY SUPPLY, CHP AND HEATING/COOLING**
- **EA 5: FUNDS AND FINANCING FOR ENERGY EFFICIENCY**

## 2. ENERGY EFFICIENCY IN BUILDINGS

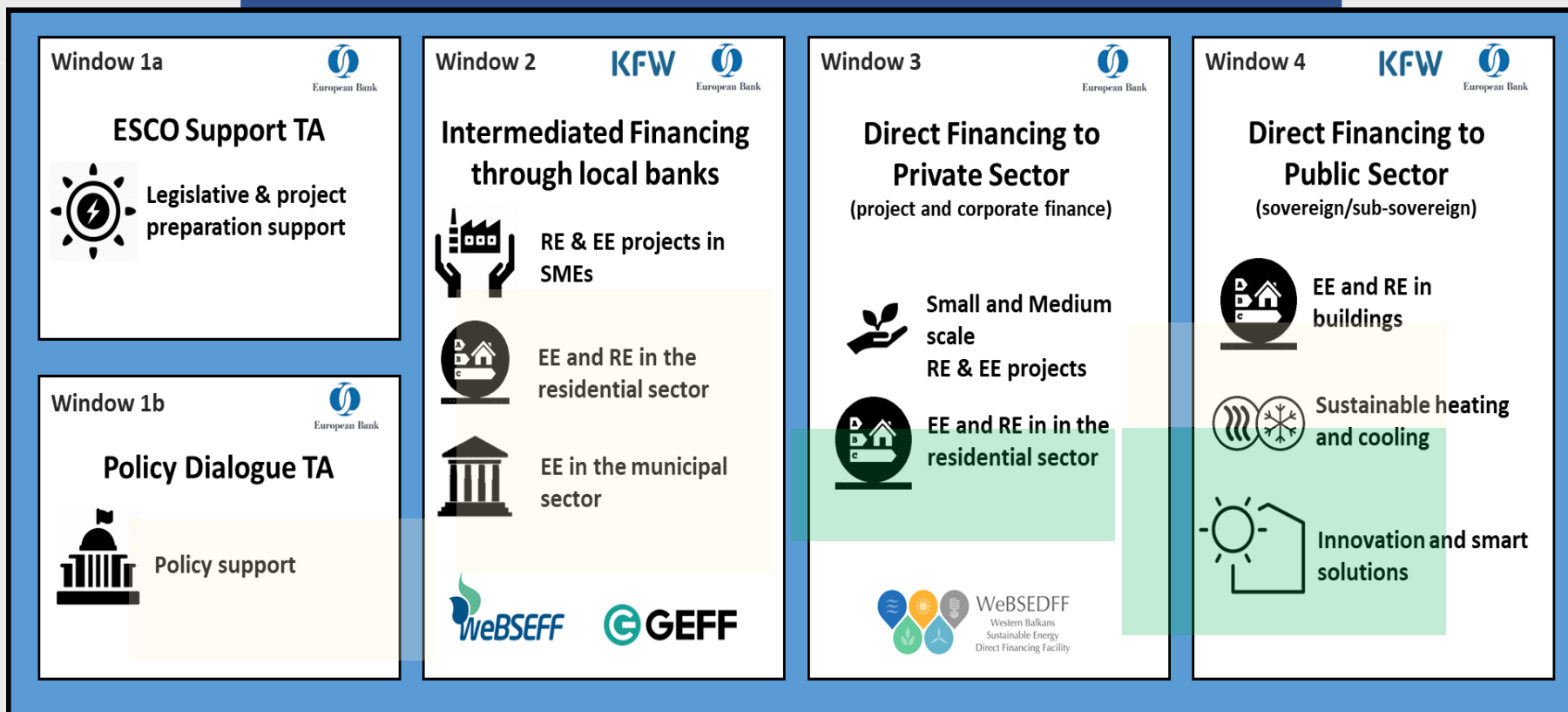
- **EA 6: BUILDINGS RENOVATION WAVE**
- **EA 7: BUILDINGS RENOVATION STRATEGIES**
- **EA 8: IMPLEMENTATION OF EPBD AND NEW REQUIREMENTS**

## 3. ENERGY LABELLING AND ECODSIGN

- **EA 9: TRANSPOSITION AND ANALYSIS OF NEW REQUIREMENTS**
- **EA 10: IMPLEMENTATION PRACTICES**

## 4. HORIZONTAL AND CROSS CUTTING ISSUES

- **1. 2030 TARGETS AND INTEGRATED NECPS (ECC and RECG)**
- **2. STRENGTHENING OF NATIONAL EE INSTITUTIONS**
- **3. COORDINATION OF DONORS/IFI EE SUPPORT**
- **4. PROMOTION OF EE&RE IN HEATING AND COOLING (RECG)**
- **5. DEVELOPMENT OF EE STATISTICS AND INDICATORS**



# ENERGY COMMUNITY

## Donor Coordination Platform



A screenshot of the Donor Coordination Platform website. The header includes the Energy Community logo, navigation links (About us, Legal, Implementation, Initiatives &amp; Infrastructure, News, Events, Documents), and a LOGIN button. Below the header is a breadcrumb trail: Home &gt; Initiatives &amp; Infrastructure: Energy infrastructure and donor initiatives &gt; Donor coordination platform. The main content area features a large graphic with the text "Donor coordination platform" and a search bar. Below this is a filter section with dropdown menus for Scope, Country, Category, Donor, and Status. At the bottom is a map of the Balkan region with several colored markers indicating donor activities in countries like Croatia, Bosnia and Herzegovina, Serbia, Montenegro, Albania, North Macedonia, Bulgaria, and Romania.

Overview of donors' programmes active in the Energy Community (including energy efficiency and buildings sector)

<https://www.energy-community.org/regionalinitiatives/infrastructure/donors.html>



**THANK YOU**  
**FOR YOUR ATTENTION**

***borko.raicevic@energy-community.org***

## **GET IN TOUCH**

-  [www.energy-community.org](http://www.energy-community.org)
-  [Ener\\_Community](https://twitter.com/Ener_Community)
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-  [/Ener.Community](https://www.facebook.com/Ener.Community)
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