

A hand holds a tablet displaying a smart home control interface. The interface shows a house outline with three zones (zone 1, zone 2, zone 3), a temperature gauge set to 21°C, a bar chart with categories A, B, C, D, E, and a line graph. On the right side of the interface are four icons: a power button, a lightbulb, a padlock, and a double arrow.

## REKK online workshop

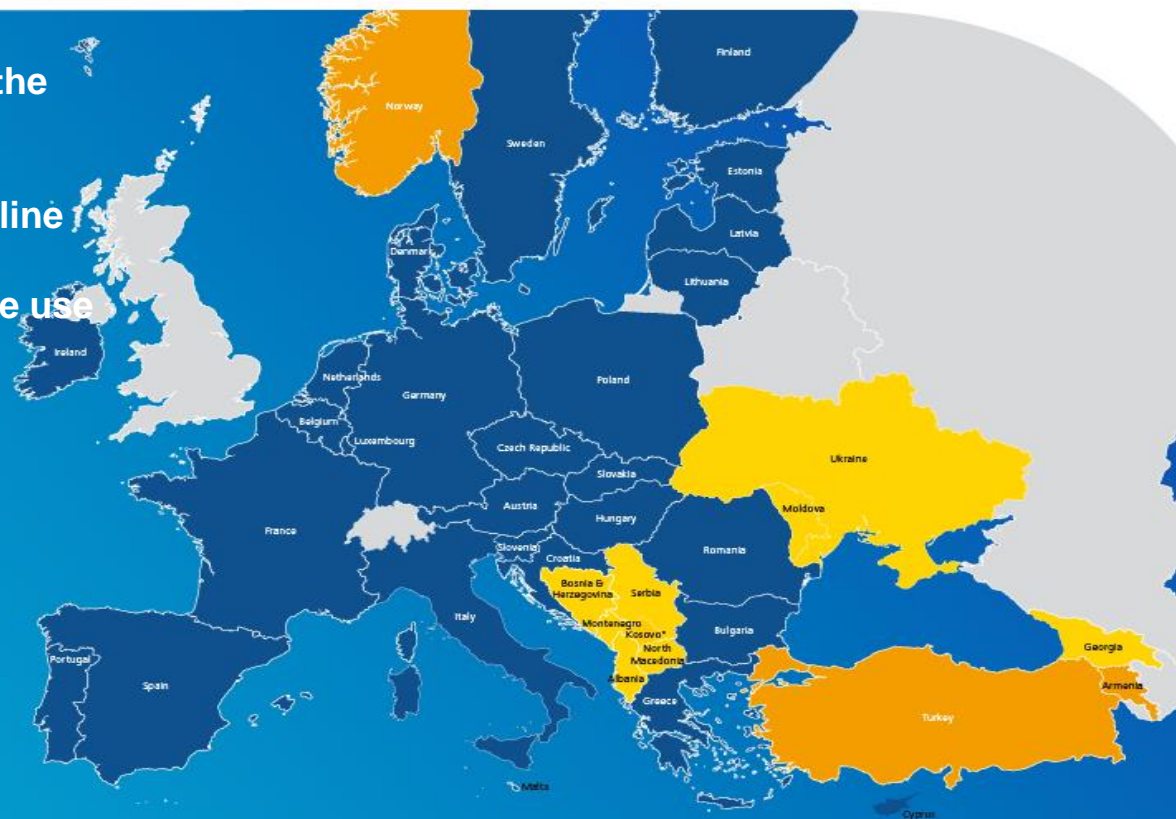
## Ways of decarbonising the heating sector in WB6

Biljana Grbić, 21 October 2021

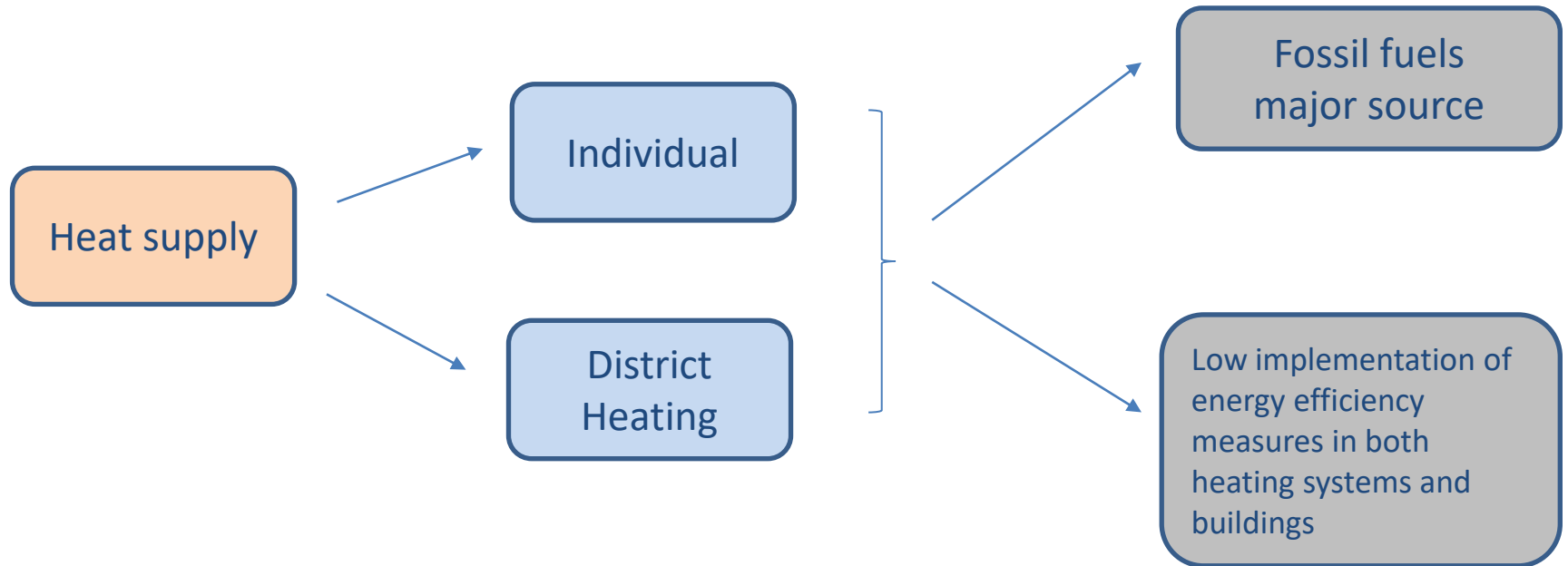
Energy Community Secretariat

- ☀ International organization established in 2005 by the Treaty establishing the Energy Community;
- ☀ Instrument to assist countries in the EU's neighbourhood to reform their energy markets in line with EU law
- ☀ Improve the environmental situation and foster the use of renewable energy and energy efficiency

- 🟠 Observers
- 🟡 European Union
- 🟢 Contracting Parties



# The heating sector challenges in the EnC



# District Heating Systems in Energy Community

|                             | Bosnia and Herzegovina   | Kosovo*   | Moldova           | North Macedonia   | Serbia   | Ukraine   |
|-----------------------------|--|---|-------------------|-------------------|--|---|
| <b>Number of DH systems</b> | <b>33</b>  | <b>4</b>  | <b>2</b>          | <b>3</b>          | <b>58</b>  | <b>cc 1400</b>  |
| <b>Fuels used</b>           | <b>Coal (43%),<br/>Natural gas (31%),<br/><br/>Biomass (25%)<br/>Petroleum products (1%)</b> | <b>Coal (96.6%)<br/>Petroleum products (3.4%)</b> | <b>Gas (100%)</b> | <b>Gas (100%)</b> | <b>Natural gas (74%),<br/>coal/lignite (17%),<br/>petroleum products (8%)<br/>and biomass (1%)</b> | <b>Coal and natural gas (99%)<br/><br/>RES (&lt;1%)</b> |

\*This designation is without prejudice to positions on status, and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo Declaration of Independence.

\*\*At present, district heating network does not exist in Albania and Georgia  
Montenegro is in the process of developing new biomass DHS in Zabljak municipality

## Renewable-based DH projects in EnC

- [The Green Agenda for the Western Balkans and the Economic and Investment Plan](#) : energy efficiency and modernisation of district heating systems, as a solution for greening cities
- Under the [Renewable District Energy in the Western Balkans](#) (REDEWeB) several projects in a pipeline:
  - ❖ Albania: 1 (new greenfield DH system based on several renewable heat solutions)
  - ❖ Bosnia and Herzegovina: 2 (heat pump utilising geothermal heat and industrial waste heat)
  - ❖ Kosovo: 1 (solar thermal)
  - ❖ Montenegro: 1 (greenfield biomass-based DH)
  - ❖ Serbia: 8 (5 solar thermal, 3 heat pumps utilising heat from a waste water treatment facility)

Source: [WB6 Energy Transition Tracker, Third Edition](#)

## NECPs measures for DH in some MSs

|                                      | Denmark   | Ireland   | Latvia   | Lithuania                              | Netherland                  | Poland                             | Sweden             |
|--------------------------------------|---|---|--|--|-----------------------------|------------------------------------|--------------------|
| <b>Modernisation of heat network</b> | Replacing natural gas-based DH with heat pumps                    | N/A   | EU structural funds: renovation of DH            | Yes, upgrade of remote metering system | N/A                         | One of the strategic directions    | N/A                |
| <b>New DH infrastructure</b>         | Assessment of the need for new infrastructure; energy communities | Climate Action Fund – building two DH systems; Assessment of DH potential | EU structural funds for new regional DH networks | Yes, for integrating of 200 MW of RES  | Yes, to replace gas network | One of the strategic directions    | Klimatkliv program |
| <b>Connection to DH</b>              | Mandatory connection is ceased                                    | N/A   | Support for new connections (lower tariffs)      | Financial support for new connection   | Yes                         | 70% of households connection to DH | N/A                |

Source:




[Energy Community Secretariat Discussion Paper: How would heating and cooling sector contribute to EU 2030 decarbonisation goal – NECPs measures](#)



# THANK YOU FOR YOUR ATTENTION

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