Heating and Cooling in the Energy Community Contracting Parties

Background information to inform discussion at Energy Efficiency Co-ordination Group, Vienna, March 2020
Context
Heating and Cooling Accounts for half of EU final energy demand…

Source: http://www.heatroadmap.eu/
Final energy demand by fuel carrier in EU EBRD countries (Bulgaria, Cyprus, Estonia, Greece, Croatia, Hungary, Latvia, Poland, Romania, Slovakia) – no readily accessible data for EECG countries, but these countries are fairly representative of EnCPs.

Source: [http://www.heatroadmap.eu/](http://www.heatroadmap.eu/)
EBRD experience in improving energy performance & sustainability of RESIDENTIAL + TERTIARY heating and cooling demand: Selected examples

1. **Reducing/moderating energy consumption**
2. **Efficient biomass boilers, shifting from fossil fuels to biomass**
3. **Efficient gas boilers**
4. **Improving EE of DH networks**

Final energy demand by type in EU EBRD countries (Bulgaria, Cyprus, Estonia, Greece, Croatia, Hungary, Latvia, Poland, Romania, Slovakia), residential (left) and tertiary (right)

Adapted from source: [http://www.heatroadmap.eu/](http://www.heatroadmap.eu/)
EBRD experience in improving energy performance & sustainability of **INDUSTRIAL** heating and cooling demand: Selected examples

Final energy demand by type in EU EBRD countries (Bulgaria, Cyprus, Estonia, Greece, Croatia, Hungary, Latvia, Poland, Romania, Slovakia), in industry

5. **Fuel switching**

6. **Low temp district heat for industry**

7. **Biomass in industry**

8. **Heat recovery systems**

Adapted from source: [http://www.heatroadmap.eu/](http://www.heatroadmap.eu/)
Strong high-level policy framework / drivers for decarbonising heating and cooling in EU & EnCPs

- EU Climate and Energy Targets, NECPs
- EU Directives – Articles Specific to Heating and Cooling
  - Revised Renewable Energy Directive (2018/2001/EU) Article 23 - increase the share of renewable energy in heating and cooling by an indicative 1.3 percentage points
- EU Directives – EED, EPBD, Ecodesign
- Bottom-up action at city level (local air pollution)
- Energy security (e.g. gas import dependence)

Potential questions for discussion:
- Where are the biggest challenges in the heating & cooling space?
- Where are the biggest opportunities?
- Who are the main actors to engage / involve?