



REHVA BRUSSELS SUMMIT - POLICY CONFERENCE
Zero Emission Buildings & REPowerEU
How to decarbonise heating and cooling?

**Role of Ecodesign & energy labelling in decarbonising
HVAC products**

Philippe Rivière, EC, DG ENER
Unit B3: Buildings and products

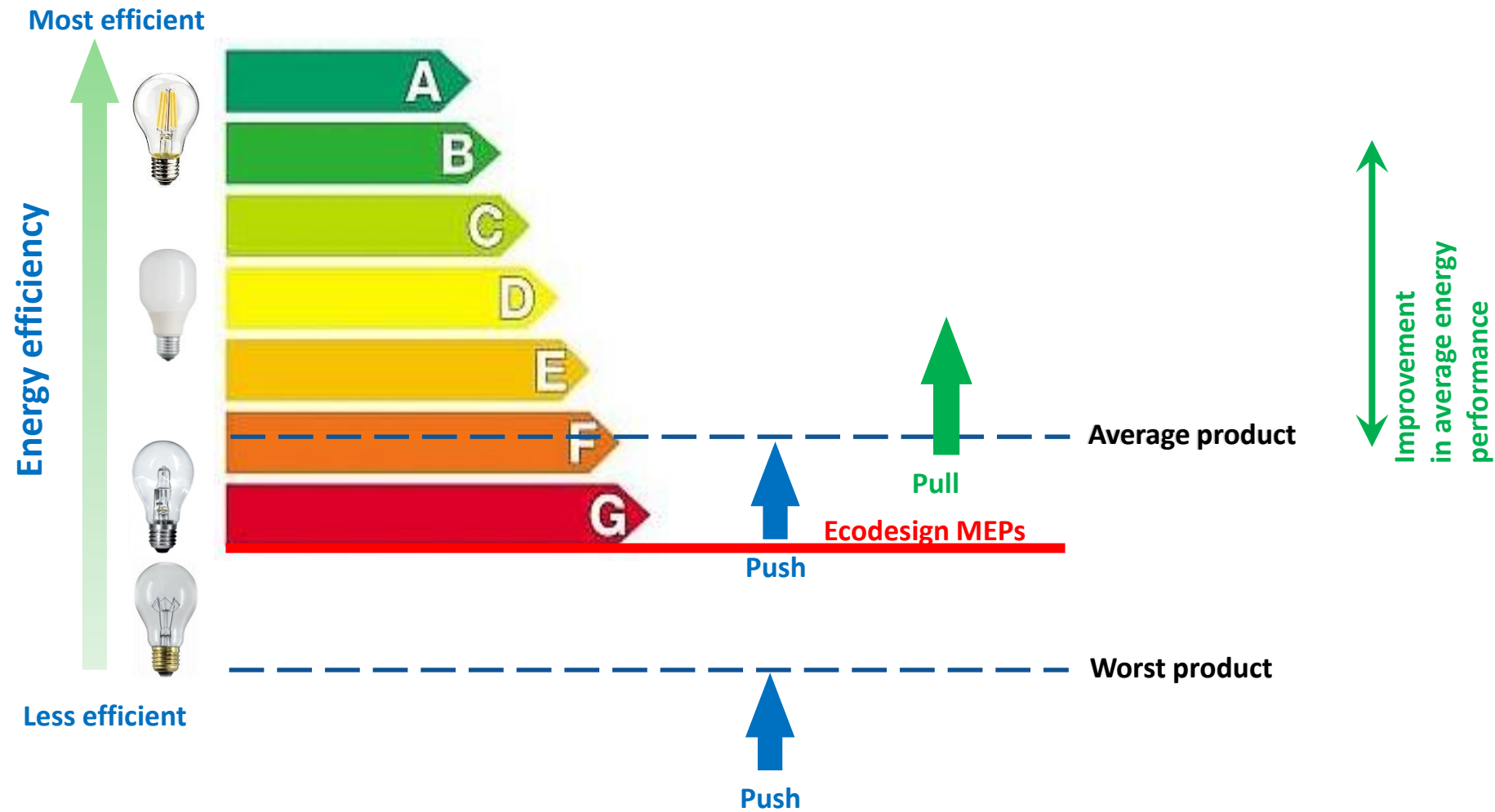
1. Standards & Labels programs - Principles

Ecodesign:

Targets **producers/retailers**
Pushes the market (models)

Labelling:

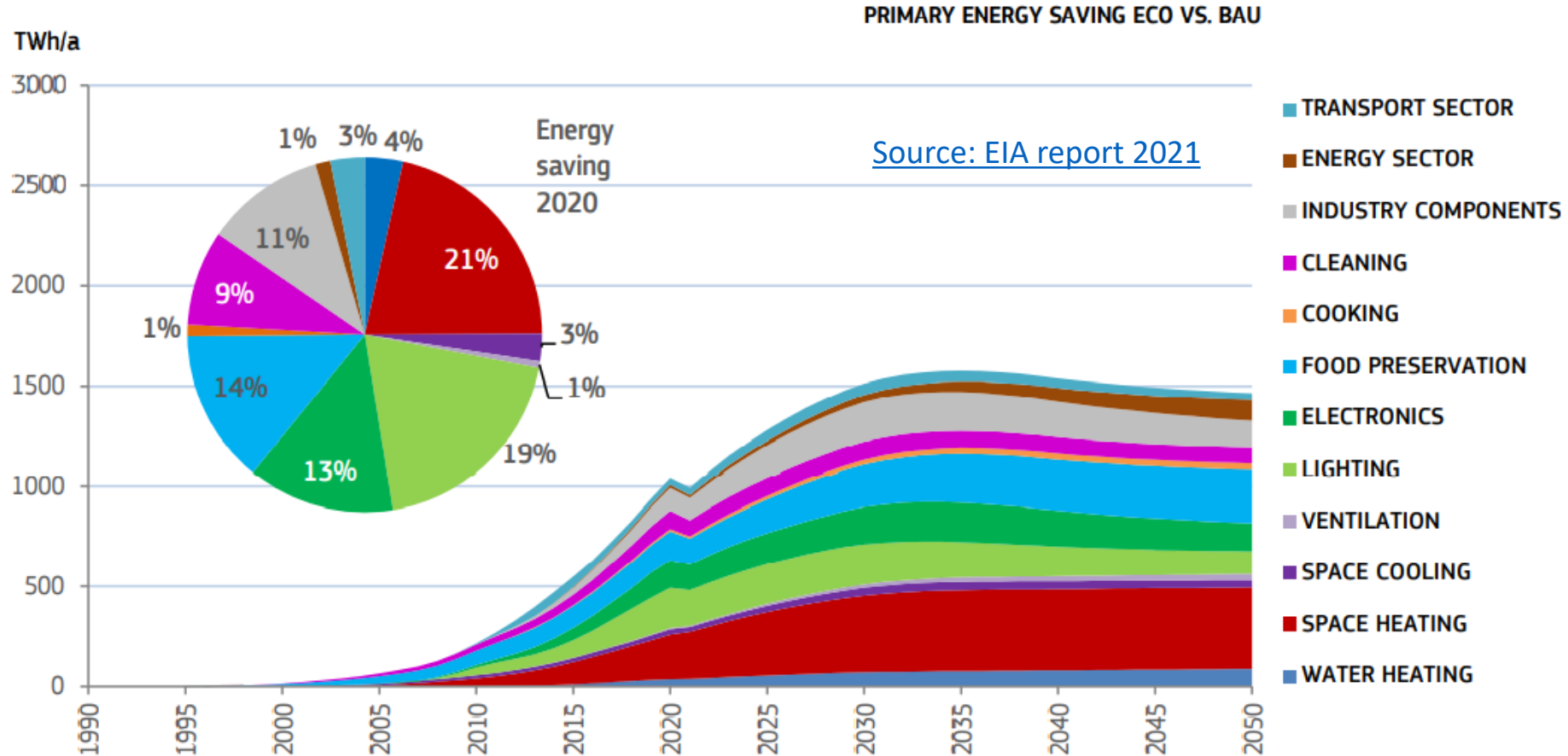
Targets **consumers**
Pulls the market (sales)





European Commission

1. Standards & Labels programs - Benefits

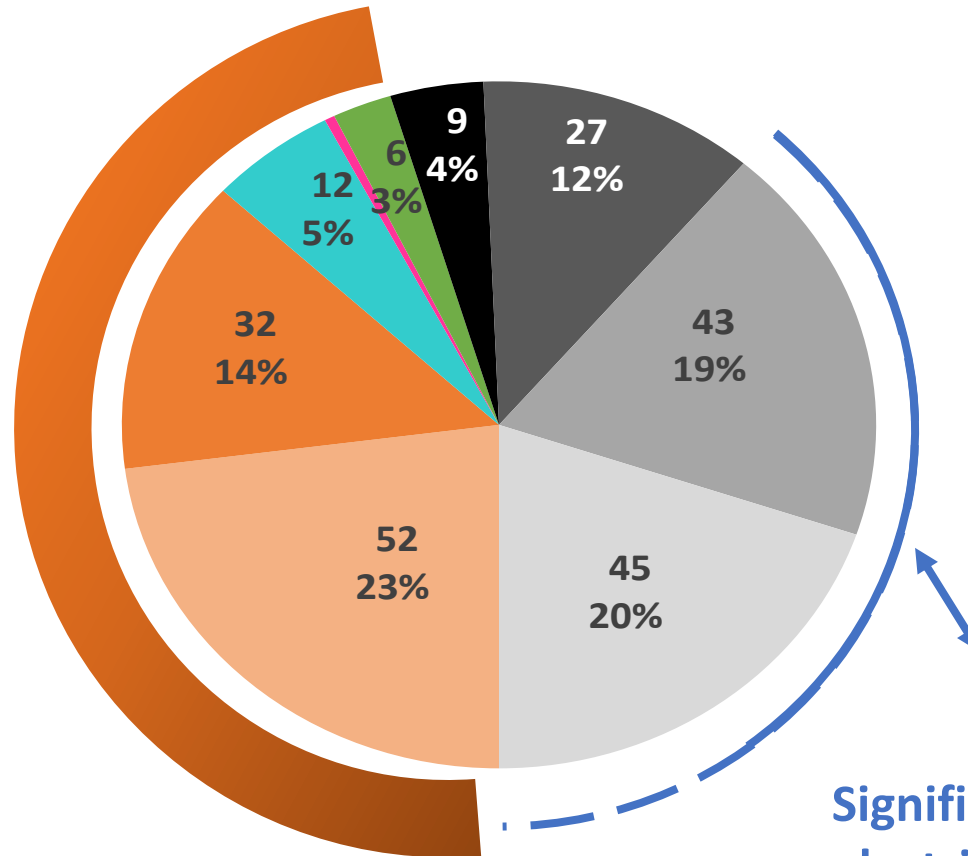


In 2020 - Savings of ~7% of EU primary energy consumption, 170 Mt CO₂ equivalent GHG, 210 euros/household, 16 bcm of gas

2. Space heating technology per dwelling

Space heating of EU27 dwellings 2020

46% of dwellings heated by central hydronic space heaters



- GAS condensing
- GAS non-condensing
- OIL (90% non-condensing)
- EL. RESIST boilers
- HEAT PUMP (incl. hybrid)
- SOLID FUEL boilers
- District heating
- EL. local heaters (incl. RAC)
- NON-EL. local & NO heating

Significant share of local heating, electric, wood

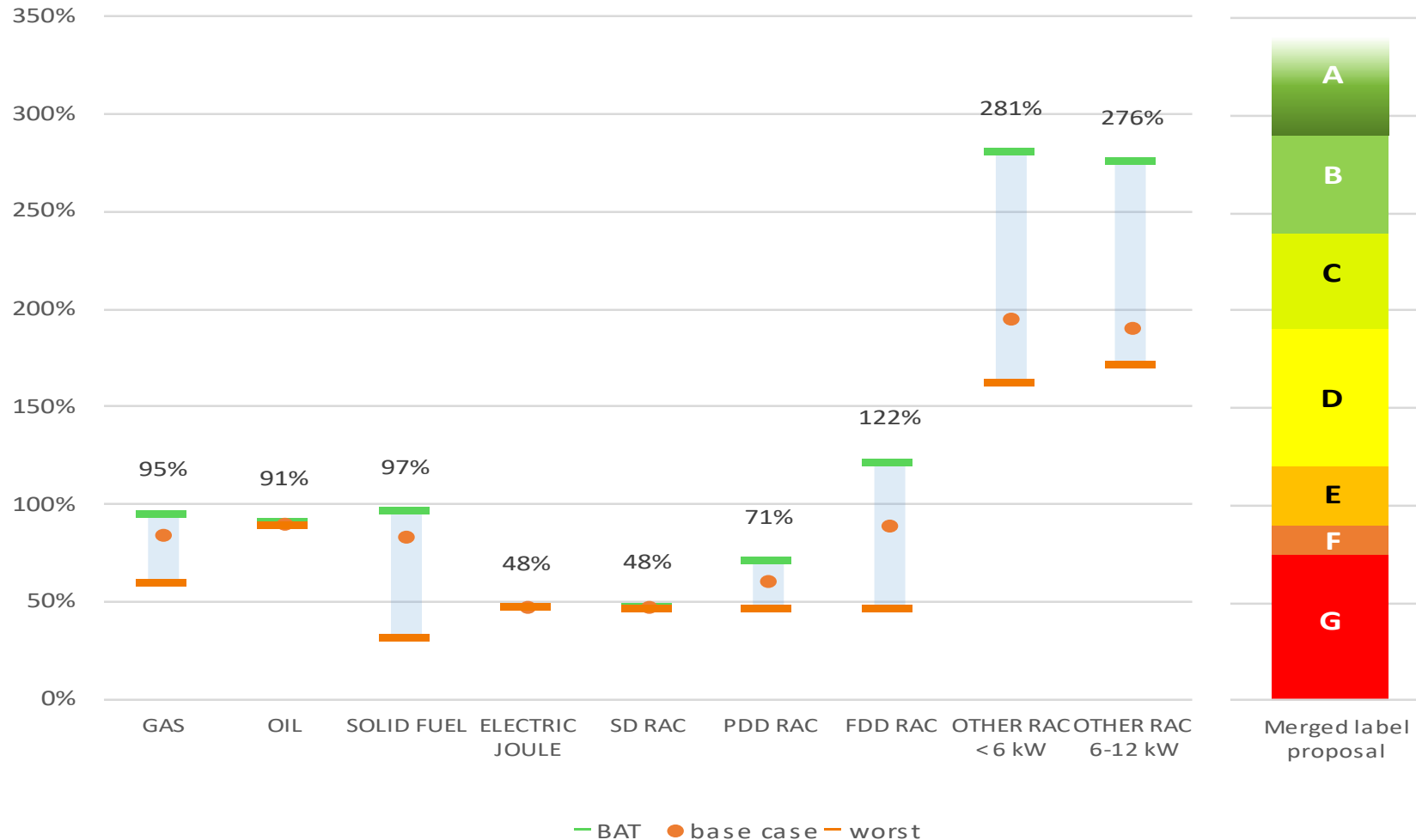
Total 227 million dwellings
(incl. 16% secondary dwellings)

Source: VHK, EIA 2021

Average no. of local heaters per dwelling are preliminary estimates

3. Local / room heating

MERGED ENERGY LABEL for HEATING RANGE average climate
based on data from EPREL, Review Study and IA for RAC and CF



NOW

5 scales and electric heating not labelled

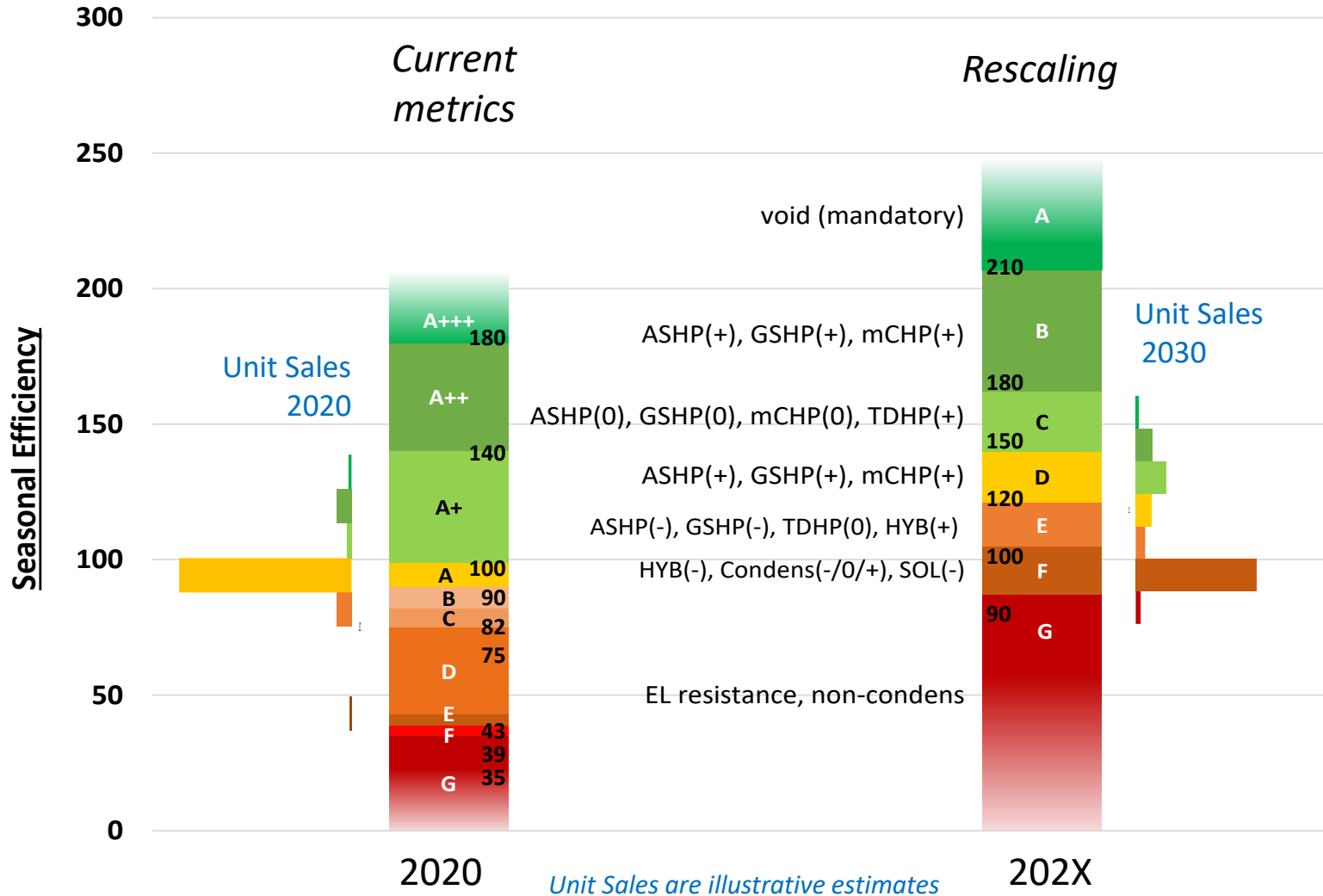
PROPOSED

Single scale for all products to favor substitution



4. Hydronic space heaters

EU Energy Label (@pef 2.1) proposal



Past efforts:

- 2015 MEPS to remove non condensing boilers
- About 50% EU stock condensing already in 2020

Next target ... condensing boilers!

- Rescaling mandatory
- Reorientate subsidies (article 7.2 2017/1369)

4. Hydronic space heaters

Necessary conditions of success

- Pro-active installers
- Economical conditions
 - ✓ Correct gas/elec taxation, carbon
 - ✓ Develop temporary/targetted subsidy or loan schemes
- Need for a functioning Internal Market to reduce HP cost - 1
 - ✓ Remove any national constraint such as national certification schemes for EPBD
 - ✓ Third Party Conformity Assessment

Need for a functioning Internal Market to reduce HP cost - 2

MS / EU articulation required between:

- National decarbonisation roadmaps and possible national heating system / fuel « bans » through EPBD
- Possible product level EU wide measure, such as proposed in REPowerEU (MEPS 110% by 2029)

Thank you for your attention.

QUESTIONS?

Contact: Philippe.RIVIERE@ec.europa.eu