



# Welcome

## Embodied carbon in the building sector

February 8<sup>th</sup> 2022

10.00 to 12.30



E3G



European  
Climate  
Foundation

# Program



10.00 – 10.10	Introductions
10.10 – 10.20	Potentials and barriers in bringing down embodied carbon <i>Oliver Saltoft, ECF</i>
10.20 – 11.00	EU proposals to reduce the embodied carbon footprint <i>Zolt Toth, BPIE</i> <i>Federica Pozzi and Michael Neaves, ECOS</i>
11.00 – 11.10	Whole-life carbon regulation in practice: The Danish Model <i>Signe Sand, Green Transition Denmark</i>
11.10 – 11.20	Whole-life carbon regulation in practice: The French Model <i>Etienne Charbit, CLER</i>
11.20 – 11.30	Coffee break
11.30 – 11.45	Discussions of policy asks
11.45 – 12.00	The path ahead: Unlocking member states and industry buy-in <i>Adeline Rochet, E3G</i>
12.00 – 12.20	Discussions: Approaches to unlocking member states
12.20 – 12.30	Wrap-up of discussions and next step

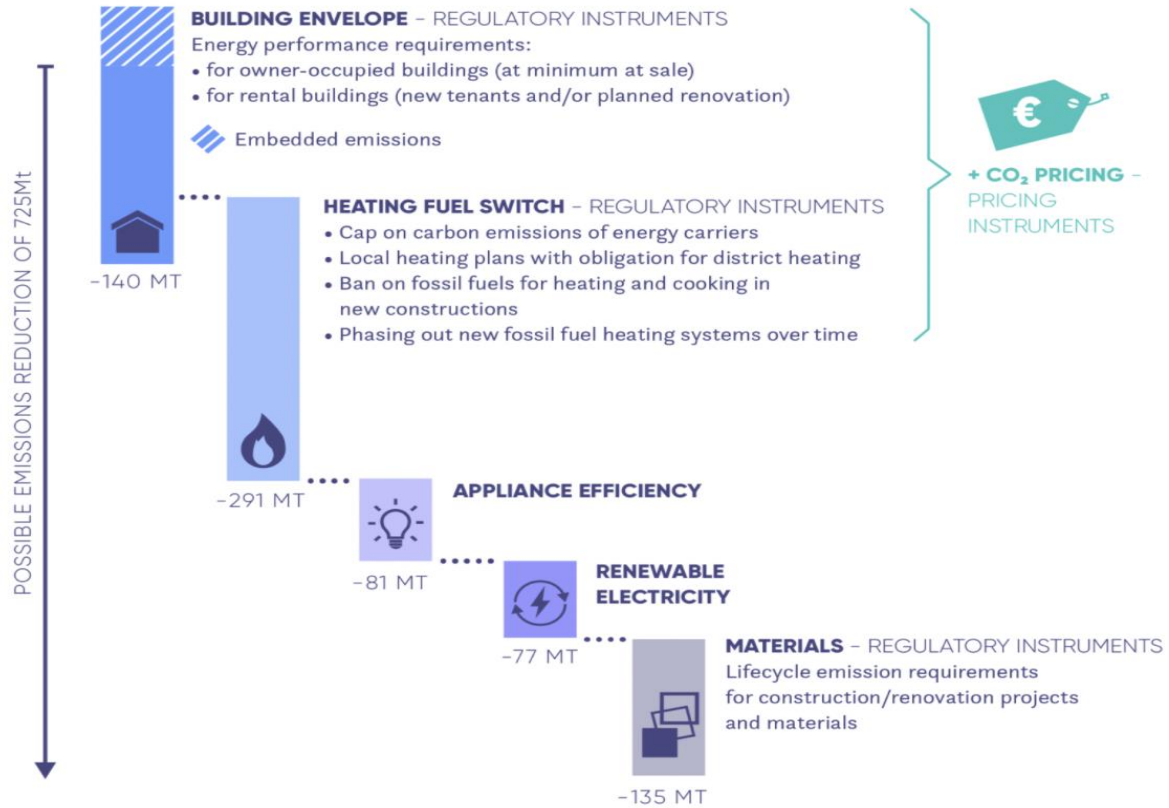
# Potentials & Barriers in Regulating Embodied carbon

Oliver Saltoft, ECF



# Potentials & Barriers

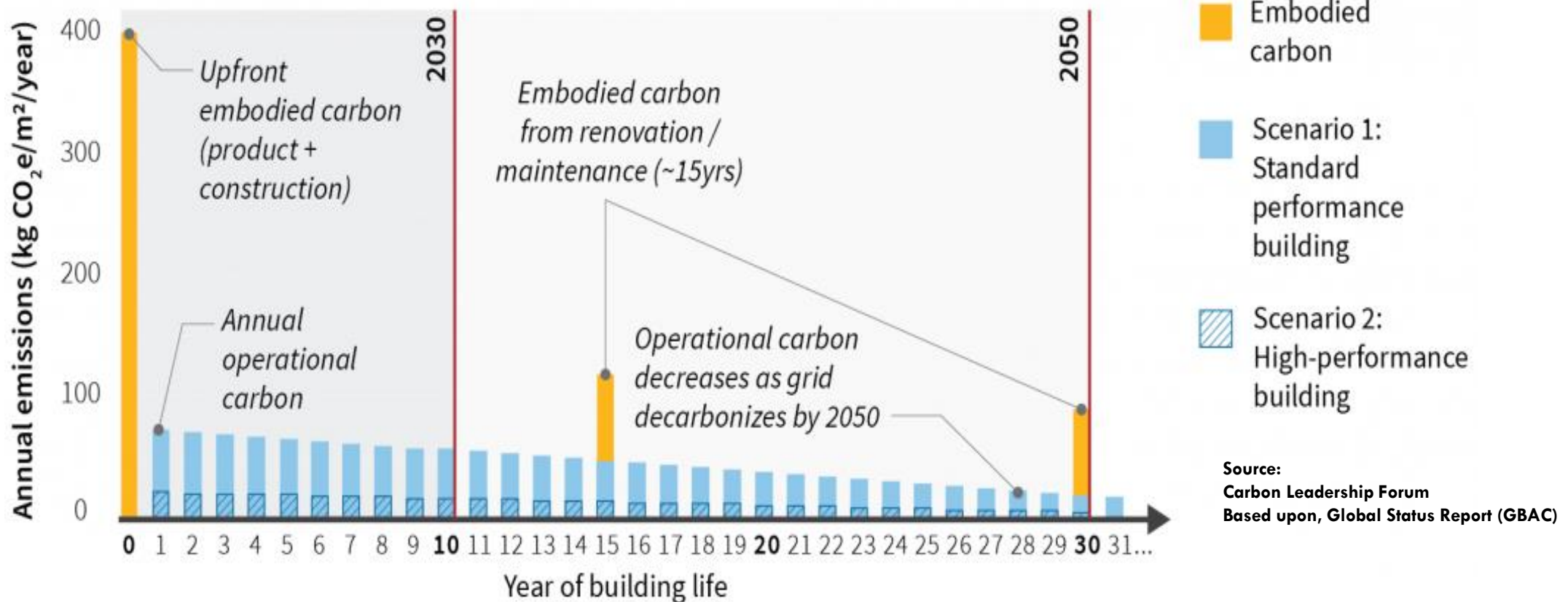
## - Cutting embodied emissions in buildings



- ❑ EU's building sector is responsible for 36% of the EU's GHG emissions
- ❑ Embodied carbon is 10-20% of the EU building stock's CO<sub>2</sub>-emission footprint
- ❑ Embodied carbon must be brought down to achieve a climate-neutral building stock

# Potentials & Barriers

## - Development in embodied carbon



- ❑ Embodied emissions have a high impact in construction- and renovation phases
- ❑ As buildings become more energy efficient – the share of embodied carbon goes up
- ❑ In the most energy efficient buildings, the share of embodied carbon is currently up to 75%

# Potentials & Barriers

## - Getting an EU regulation model

### Structural barrier no. 1: Diverse approaches

- ❑ For the moment we only have a few countries regulating WLC
- ❑ The countries that regulate WLC don't have the same regulatory models:
  - LCA assessments
  - Progressive or dynamic threshold values
  - Specific embodied emission requirements
- ❑ The EU Commission's proposal for a revised EPBD will only lead to WLC reporting as of 2030



# Potentials & Barriers

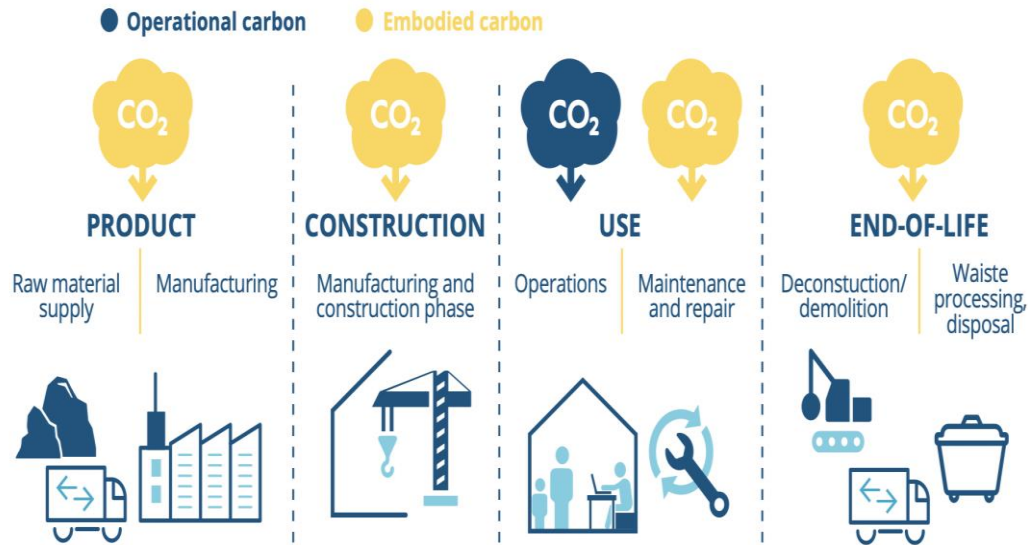
- Getting an EU regulation model  
Structural barrier no. 2: Diverse buildings

- We have diversity in the EU building stock
- We don't have a baseline for where the different building types are on a WLC scale
- But . . . maybe we have sufficient data and cases to start regulating WLC for new buildings?



# Potentials & Barriers

## - Development in embodied carbon



### Track 1:

#### Whole-life carbon regulation

- Establishing an EU WLC approach in Energy Performance of Buildings Directive
- Threshold values for WLC in Energy Performance of Buildings Directive
- We could start with WLC thresholds on new buildings



### Track 2:

#### Regulation of embodied carbon in materials

- Disclosure requirements in Construction Product Regulation (CPR)
- Threshold values in Construction Product Regulation? Sustainable Product Initiative? ECO Design Directive?



Thank you

