

SGBC NetCO₂ certification

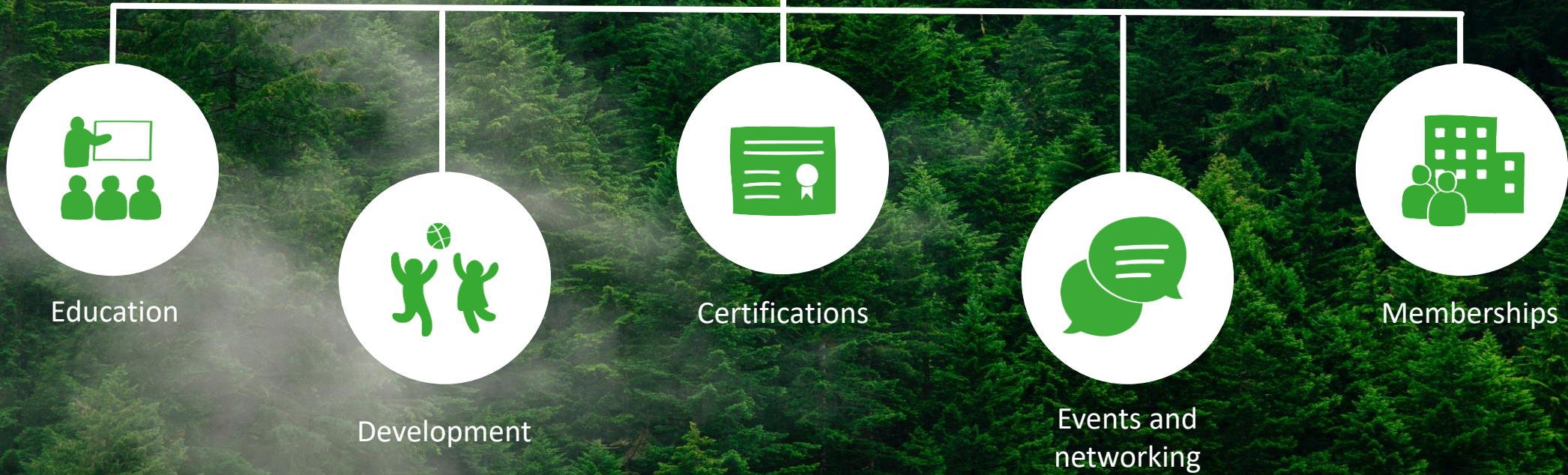
Net zero carbon certification for new buildings
developed by Sweden Green Building Council and its members



Pia Stoll
SGBC



Mattias Tas
Lidl

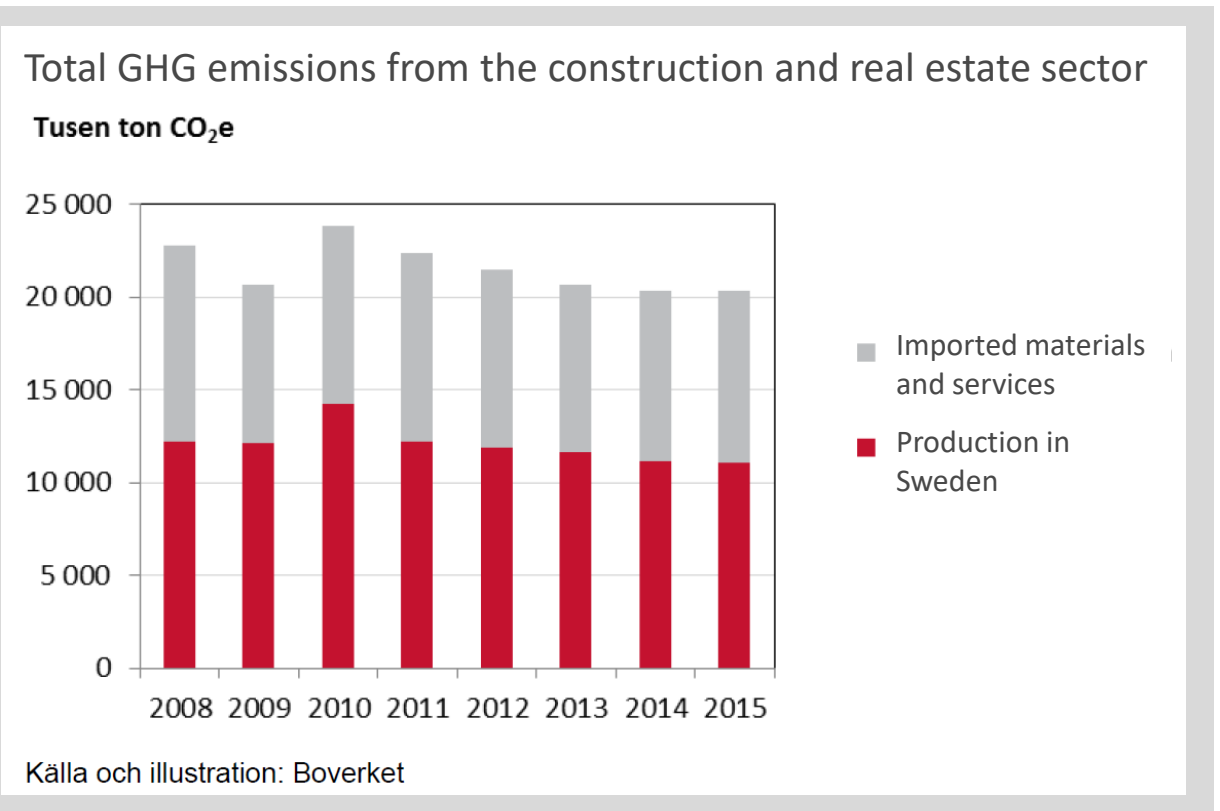


Why NollCO₂-certification of buildings?

In 2015:

- Sweden's total domestic greenhouse gas emissions were **53 461** thousand tonnes CO₂e
- Sweden's total emissions from the construction and real estate sector were **20 400** thousand tonnes of CO₂e

Sweden aims to achieve **net zero carbon by 2045**





NoIICO2 is an add-on certification



+

NoIICO₂



OR

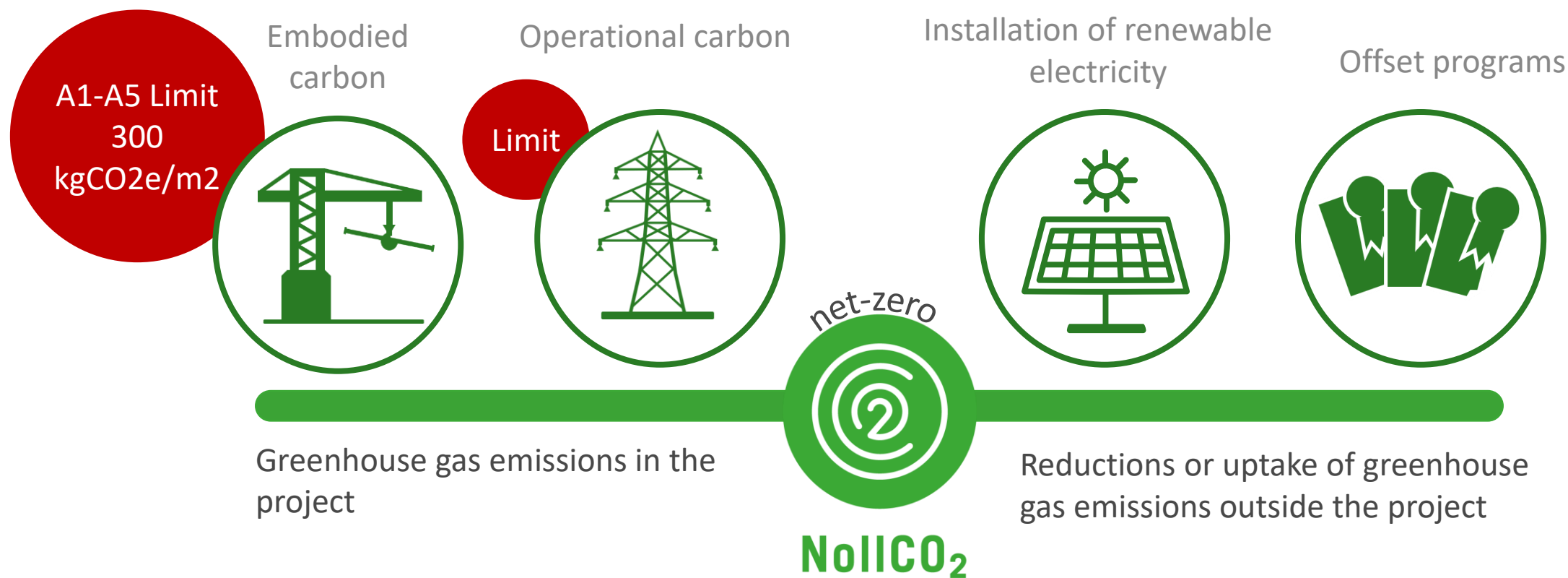
BREEAM[®] SE

OR



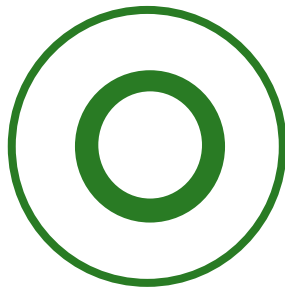


NoIICO₂ - Net Zero Impact Model



Process step 1-4

1. Reduction target



- 1.1 Calculate project baseline
- 1.2 Verify that limit is possible to reach

2. Reduce embodied carbon



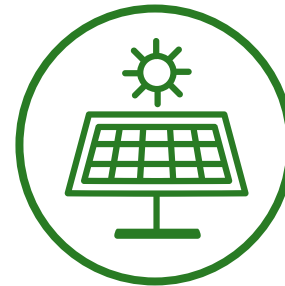
- 2.1 Embodied carbon calculation
- 2.2 Early dialogue with architect, manufacturers and entrepreneurs

3. Reduce operational carbon



- 3.1 Operational carbon calculation
- 3.2 Dialogue with engineers

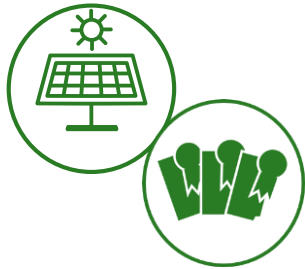
4. Renewable electricity (RES-E) production



- 4.1 RES-E production (and economics) calculation
- 4.2 Offset calculation

Process step 5-7

5. Offset remaining embodied carbon



- 5.1 Choose offsetting strategy
- 5.2 Compensate within 5 years after finished building

6. Offset remaining operational carbon



- 6.1 Choose offsetting strategy
- 6.2 Compensate yearly using actual energy usage values

7. Verify and report



- 7.1 Verify for finished building
- 7.2 Report 2:nd, 5:th year and thereafter each 5:th year

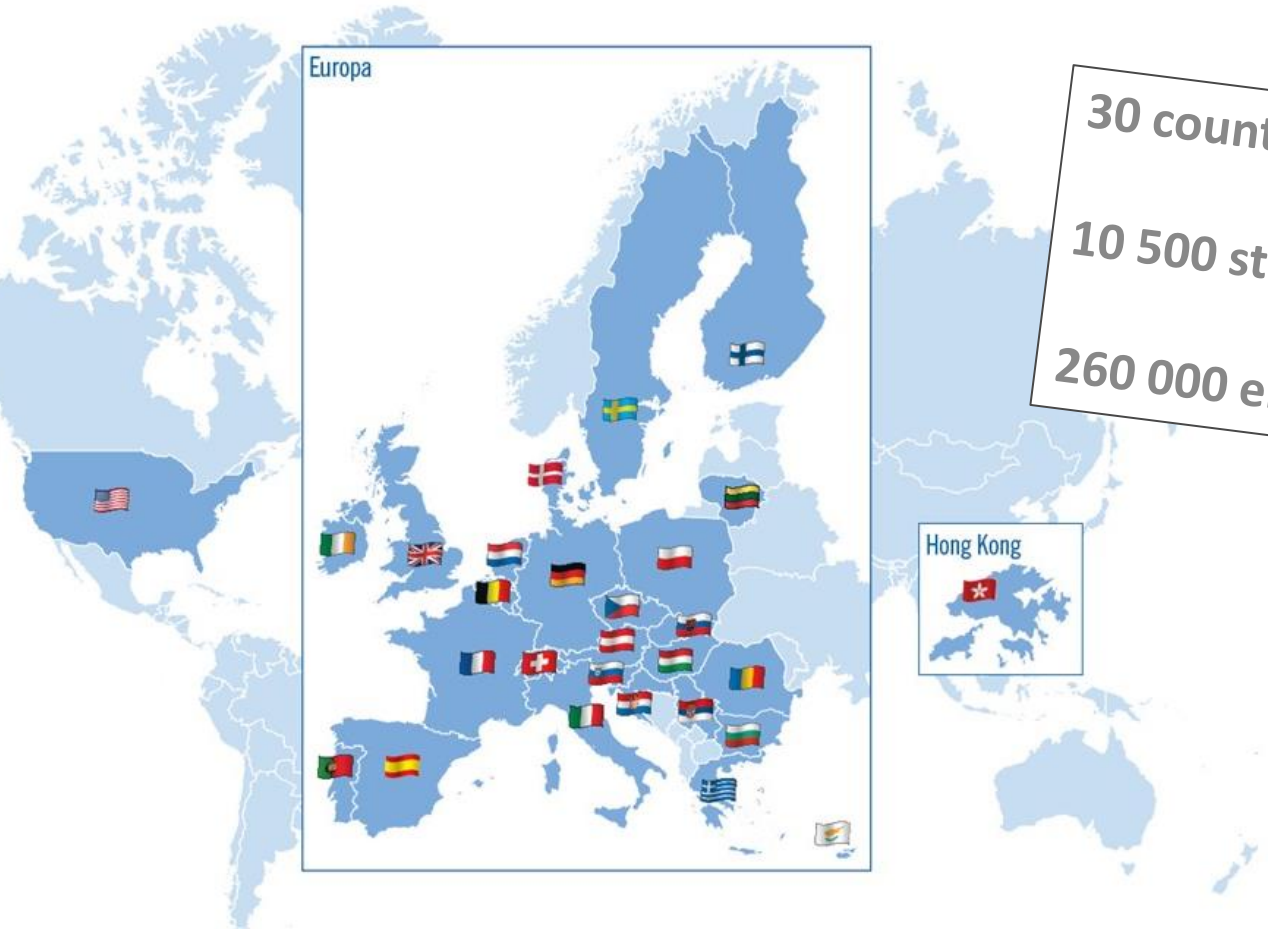
Lidl Visby Sweden's First Climate-Neutral Building





Lidl International

LIDL US
June 15th 2017



30 countries
10 500 stores
260 000 employees

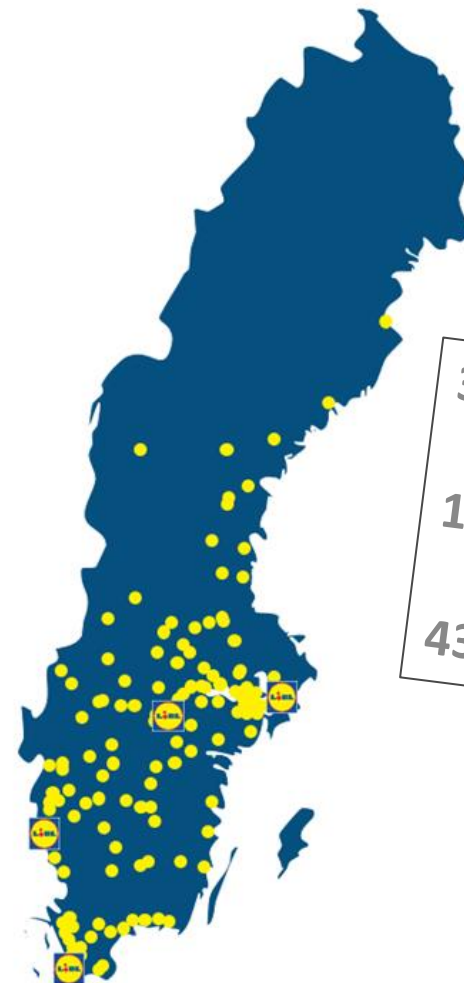
Hong Kong





Lidl Sweden

- Lidl aims to be Sweden's leading sustainable retail chain
- Transforming the image of Lidl by highlighting its high sustainability aims and achievements
- The long-term goal – attract future employees as well as the conscious consumers of today and the future



3 warehouses
185 stores
4300 employees





Lidl stores' sustainability certifications

Lidl Växjö
BREEAM Outstanding!



2015

Winners BREEAM
Awards 2017!



2017

Lidl Visby
Swedens first climate neutral building!

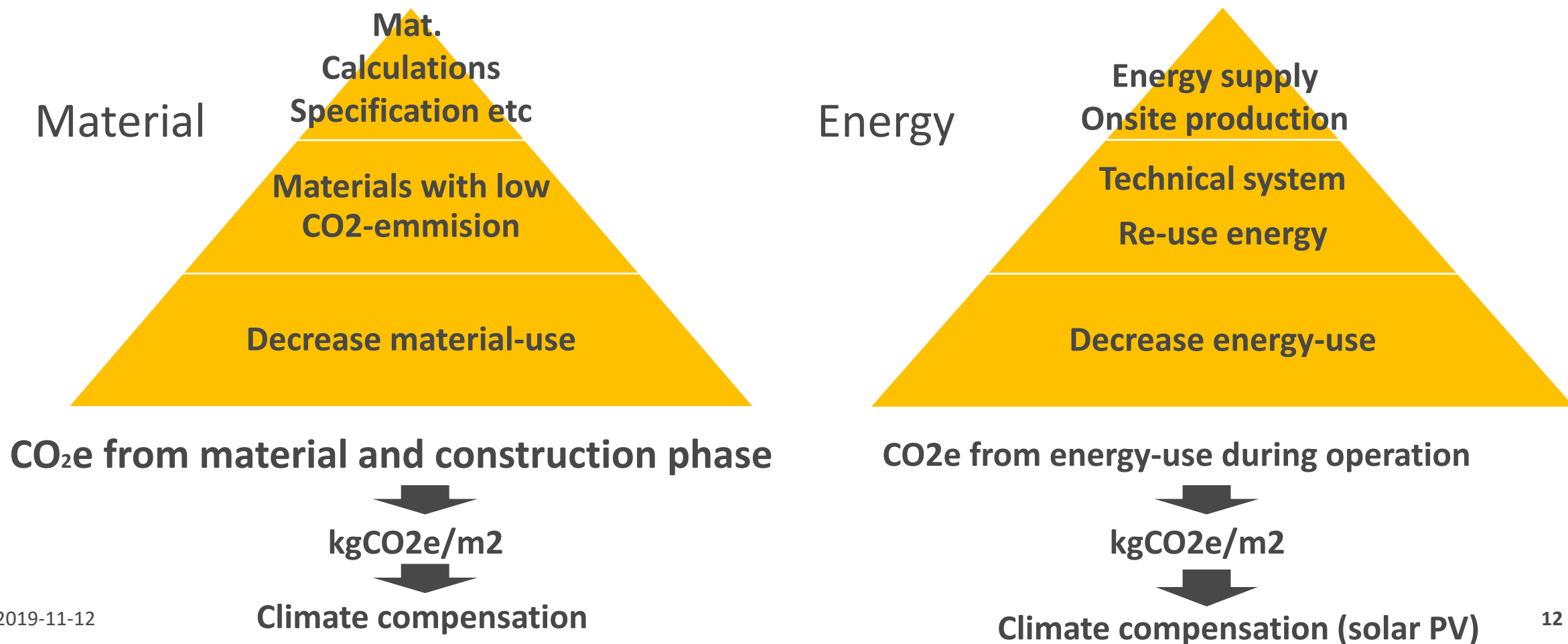
Winners SGBC
Awards 2018!



2019

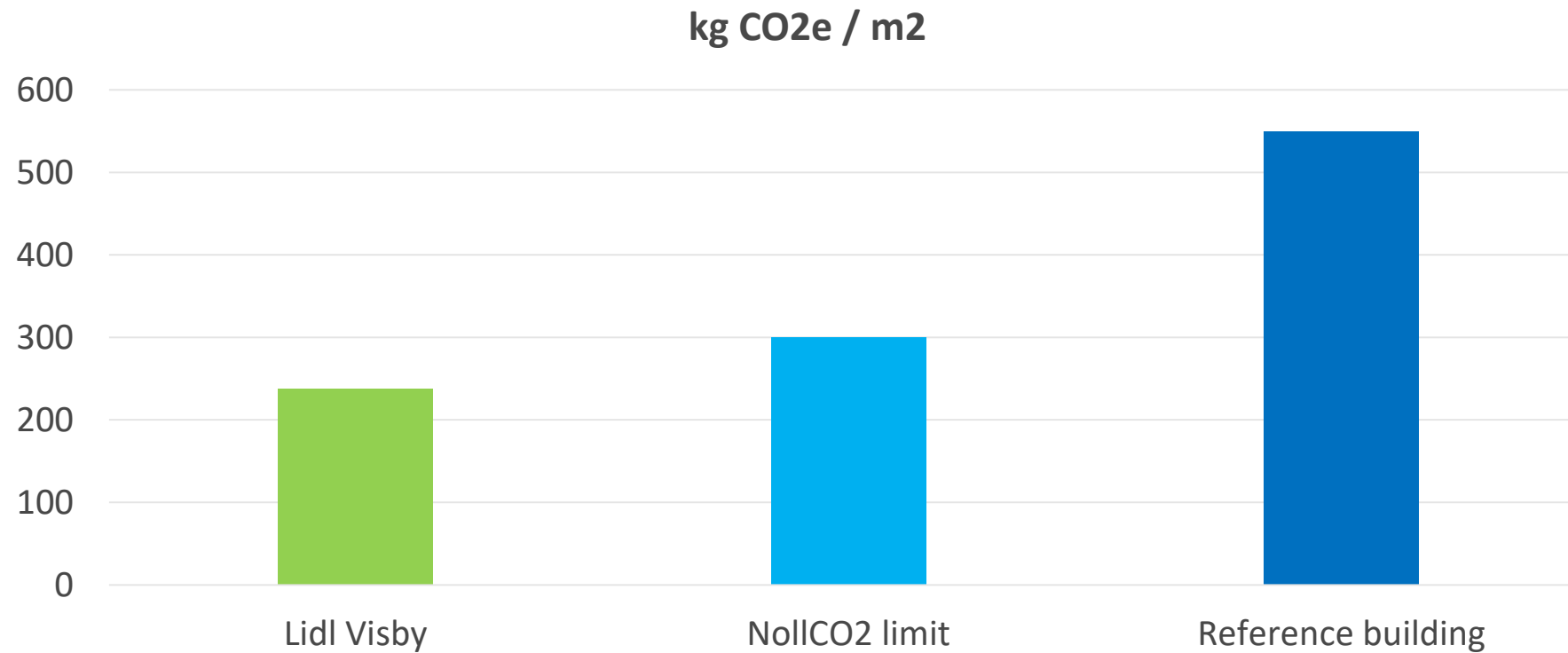


Lidl strategy for NollCO2 store in Visby



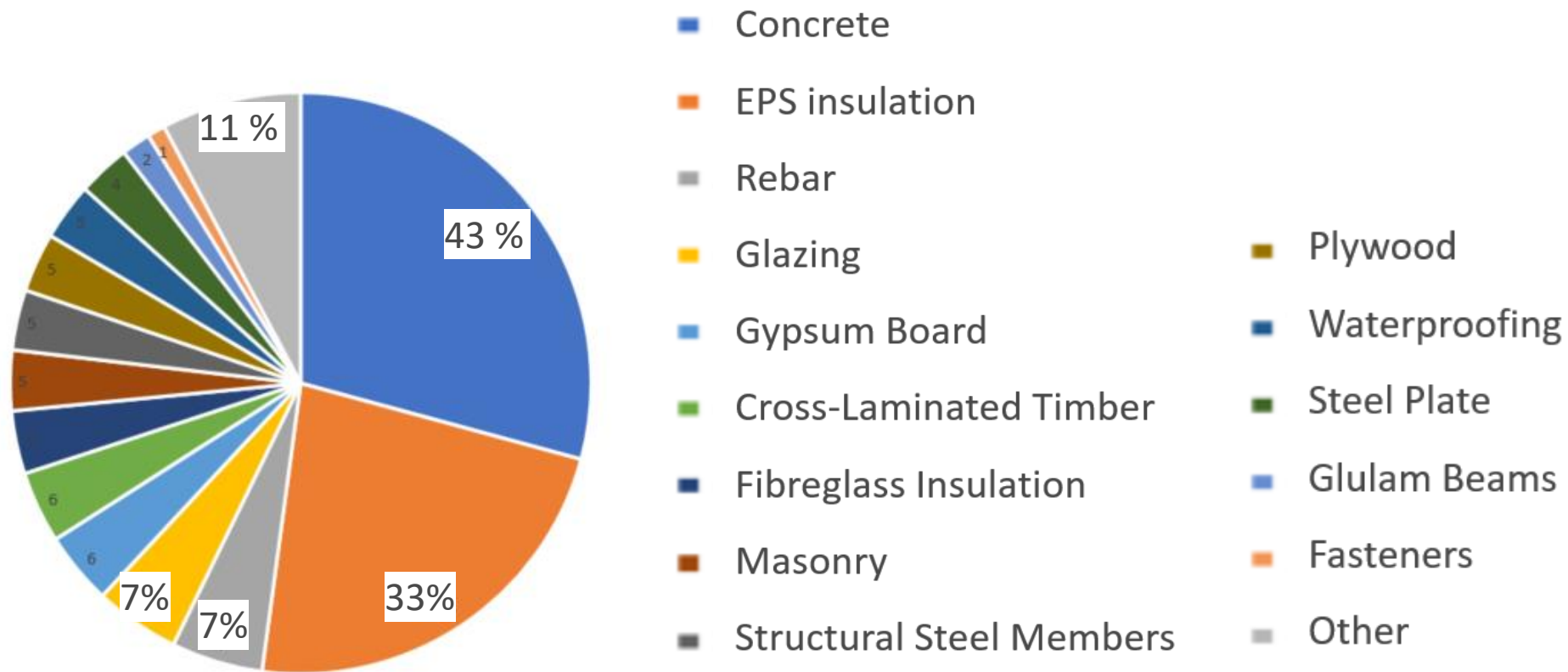


Lidl Visby comparison





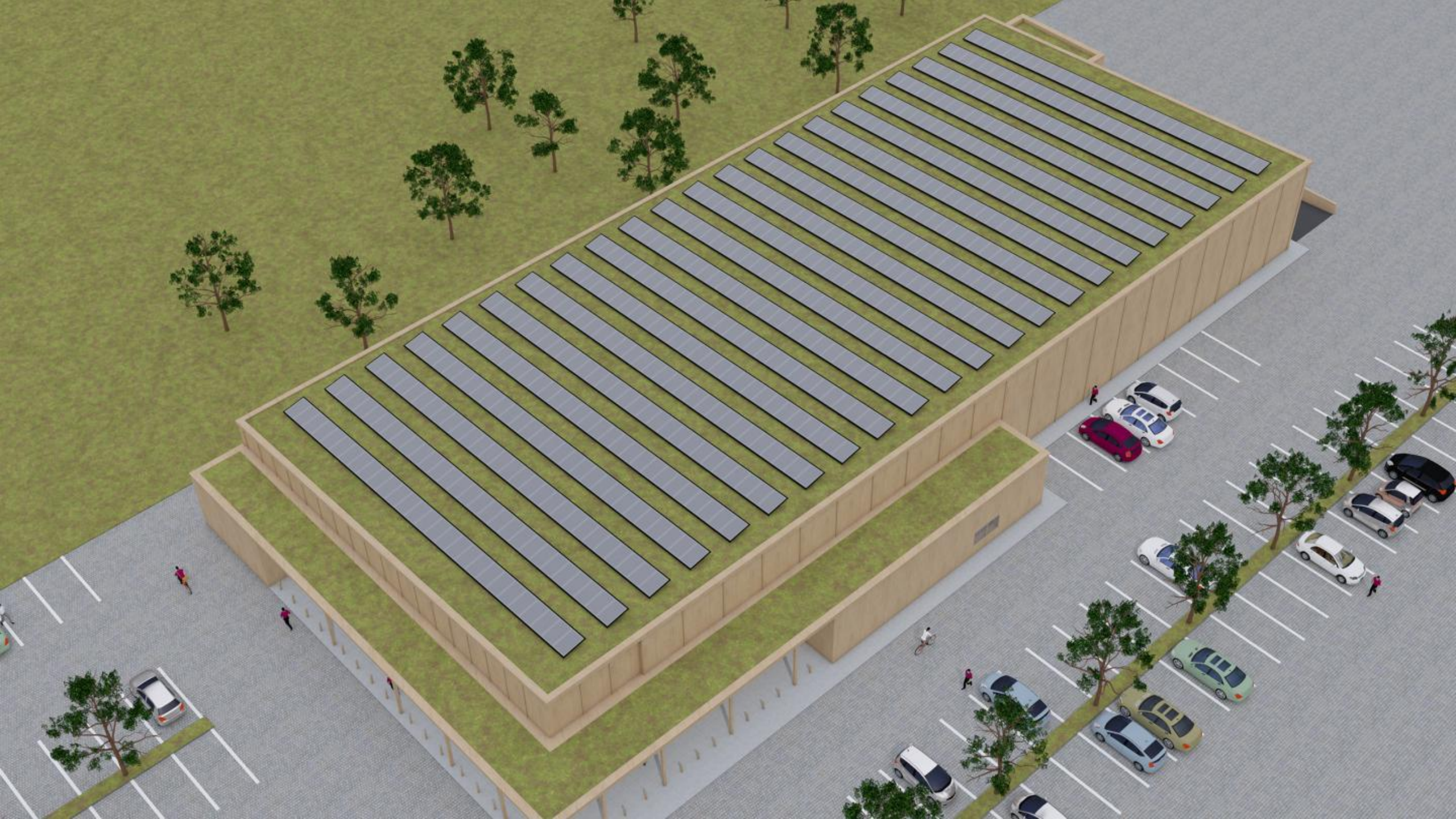
Lidl Visby – CO2 emissions per building element











Thank you!



Pia Stoll | SGBC | pia.stoll@sgbc.se



Mattias Tas | Lidl | Mattias.tas@lidl.se