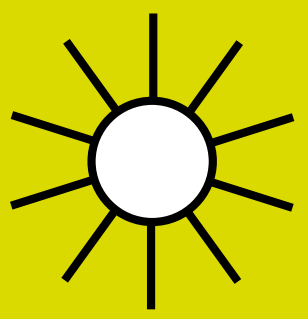
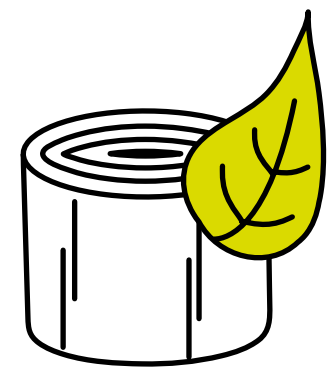


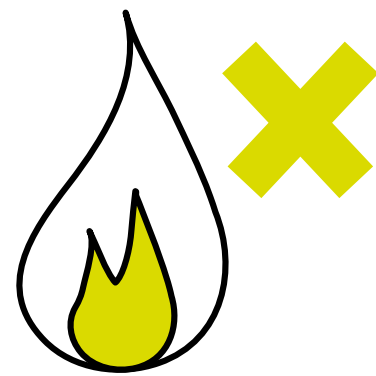
PLAN25
becoming carbon neutral



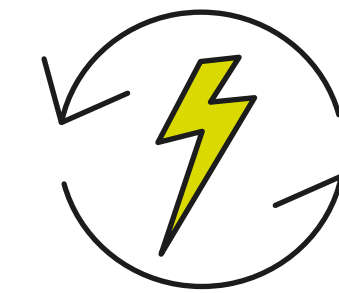
Heating



Recommission biomass



No new gas installations; either connect to heat network, use ASHP or hydrogen



Fossil fuel free campus

Heat is from 100% renewable electricity, biomass, biogas, hydrogen or energy from waste

2020

2021

2022

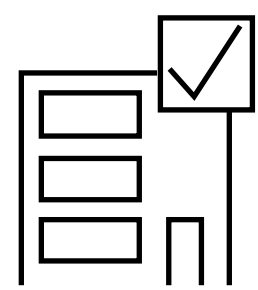
2023

2024

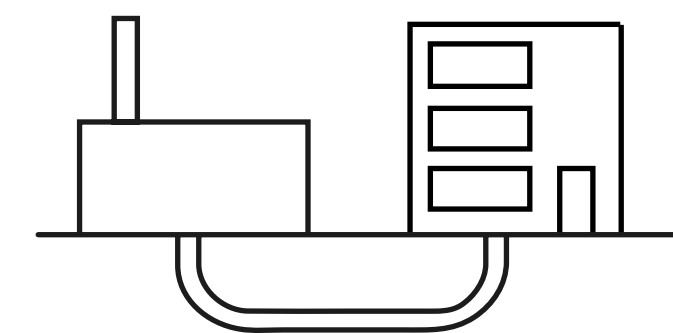
PLAN25
Certified
Carbon Neutral

PLAN30
Zero
Emission Campus

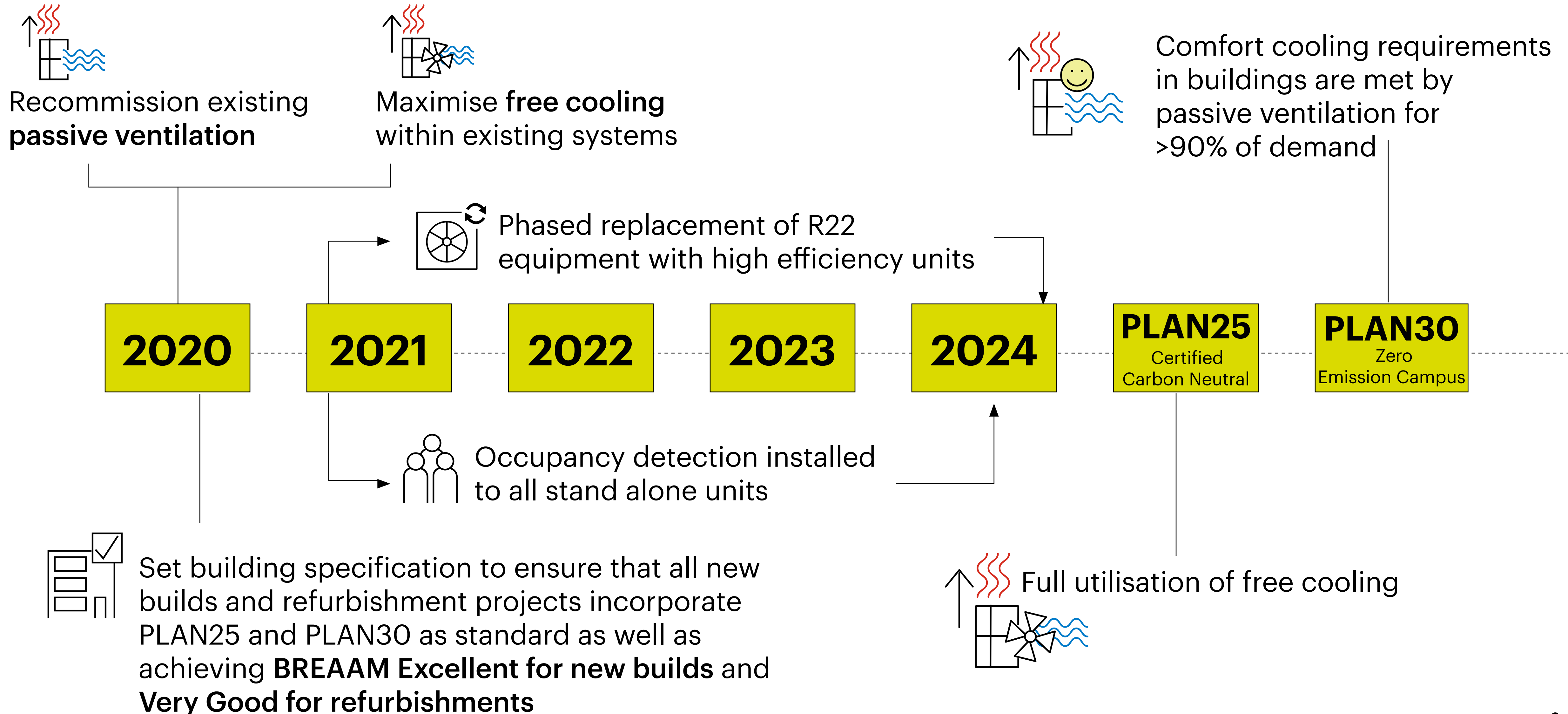
Review and expand heat network

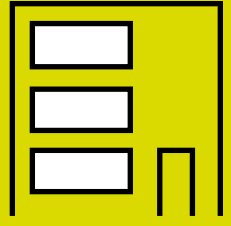


Set building specification to ensure that all new builds and refurbishment projects incorporate PLAN25 and PLAN30 as standard as well as achieving **BREAAAM Excellent for new builds** and **Very Good for refurbishments**

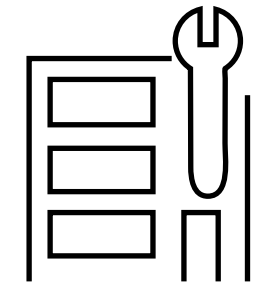


Connected to district heating scheme

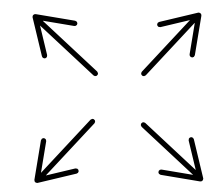




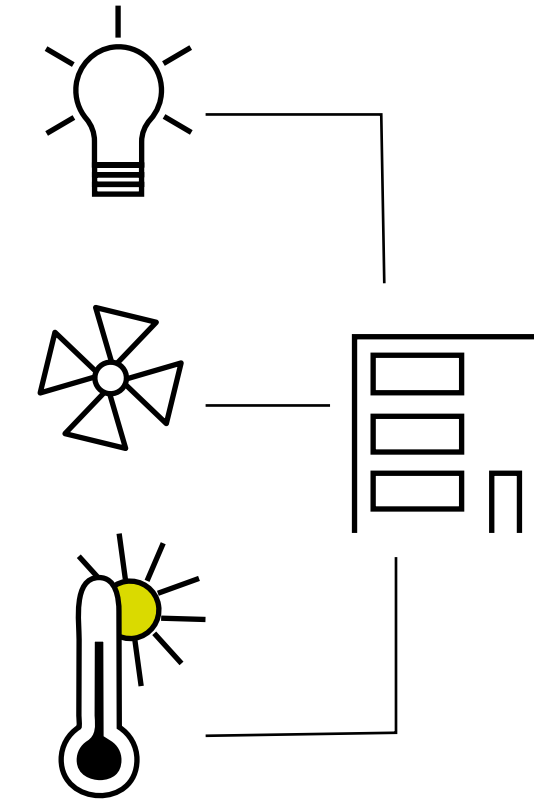
BMS (Building Management System)



Recommission existing systems



Program to upgrade, expand and integrate BMS



Heating ventilation, air conditioning and lighting fully integrated to building and room usage profiles

2020

2021

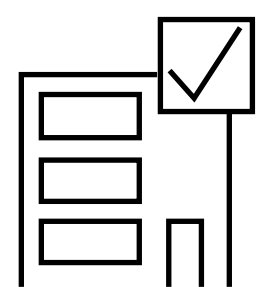
2022

2023

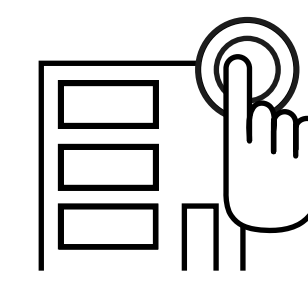
2024

PLAN25
Certified Carbon Neutral

PLAN30
Zero Emission Campus



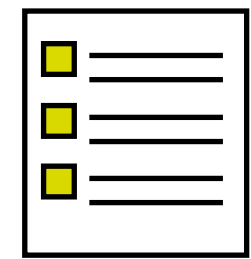
Set building specification to ensure that all new builds and refurbishment projects incorporate PLAN25 and PLAN30 as standard as well as achieving **BREAAAM Excellent** for new builds and **Very Good** for refurbishments



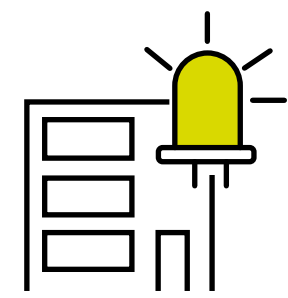
Fully optimised BMS covering all major buildings and plant



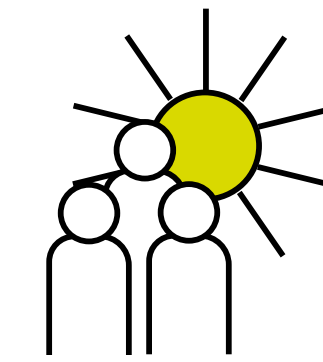
Lighting



Issue campus wide spec



LED upgrade in buildings



Daylight sensing and presence detection on all lighting

2020

2021

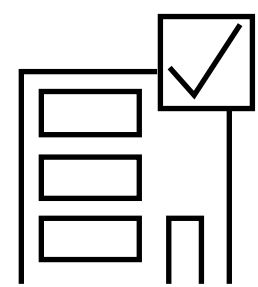
2022

2023

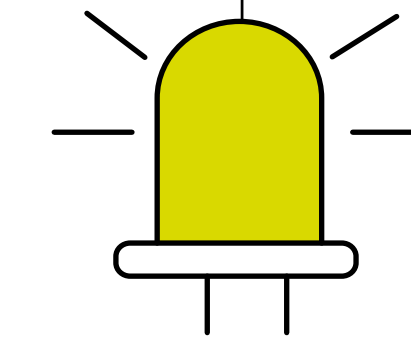
2024

PLAN25
Certified Carbon Neutral

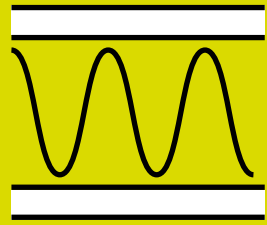
PLAN30
Zero Emission Campus



Set building specification to ensure that all new builds and refurbishment projects incorporate PLAN25 and PLAN30 as standard as well as achieving **BREAAAM Excellent** for new builds and **Very Good** for refurbishments

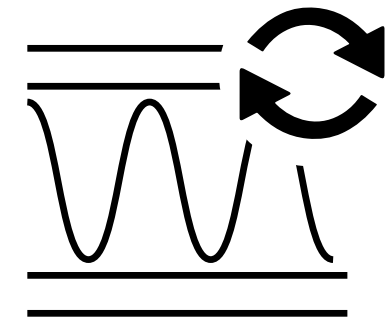


100% LED

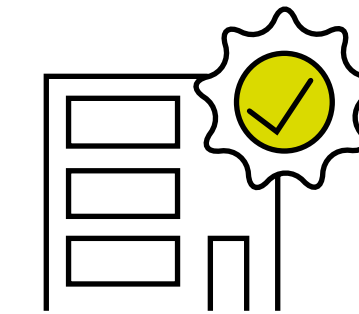


Insulation

 Survey existing insulation



Insulation program to upgrade doors, windows, walls and roofs



New buildings to **Passivehaus standards**, existing buildings to similar where possible

2020

2021

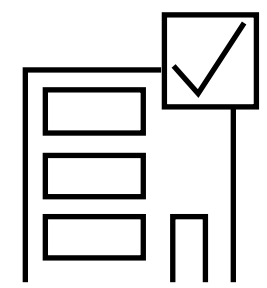
2022

2023

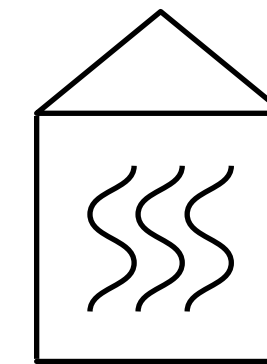
2024

PLAN25
Certified Carbon Neutral

PLAN30
Zero Emission Campus



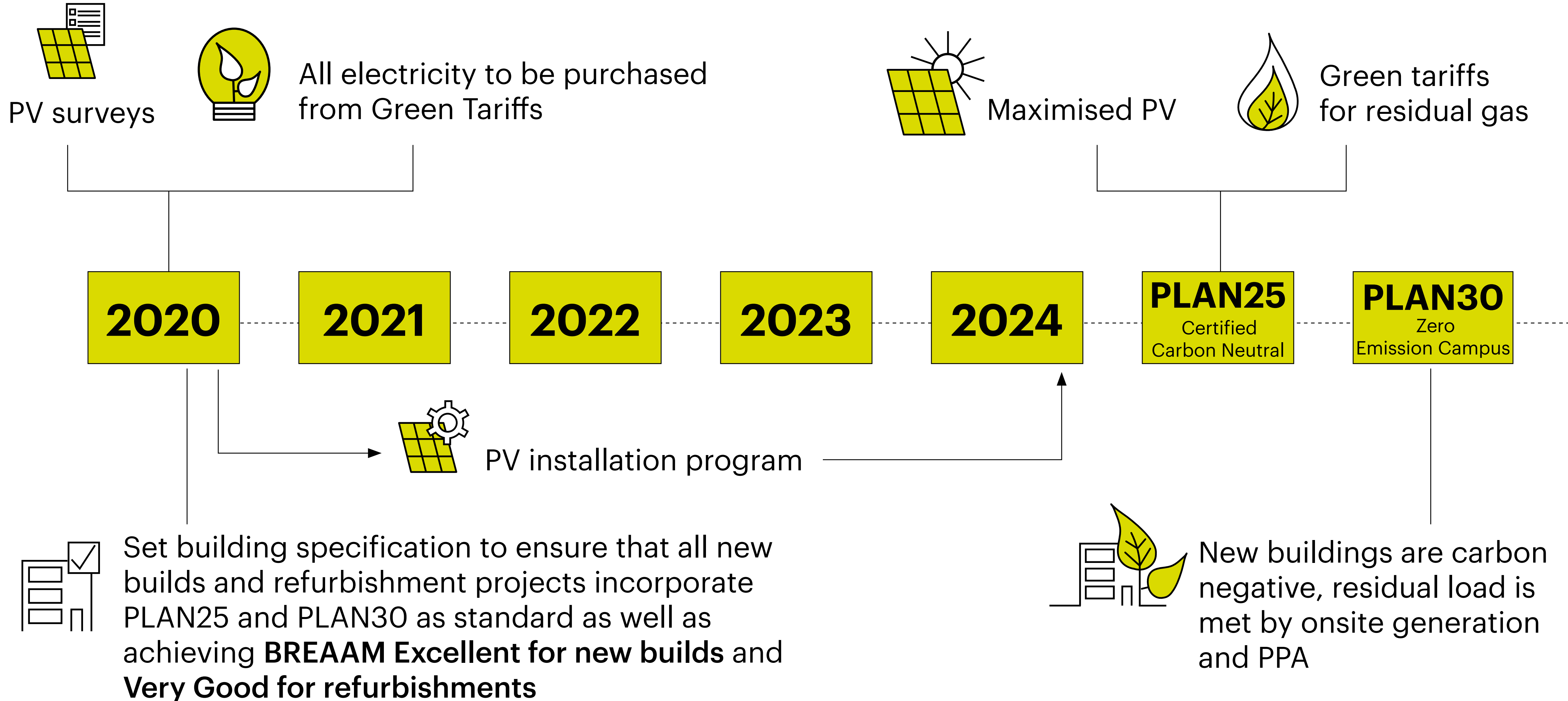
Set building specification to ensure that all new builds and refurbishment projects incorporate PLAN25 and PLAN30 as standard as well as achieving **BREAA**M Excellent for new builds and **Very Good** for refurbishments

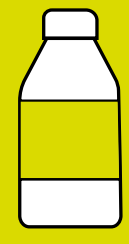


100% insulated doors, windows, walls, roofspaces



Generation/Supply

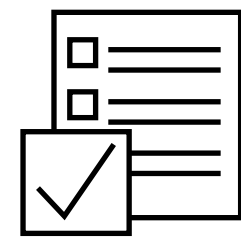




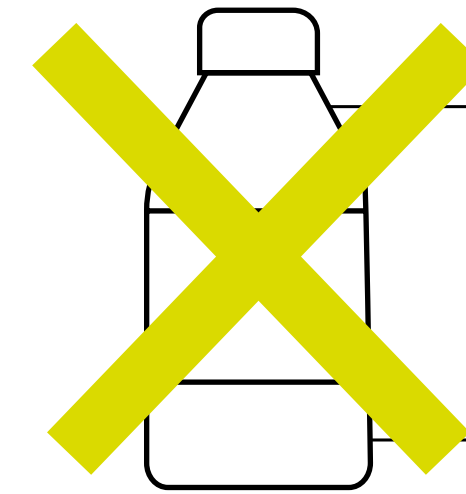
Reduction in the use of single use plastics (SUPs)



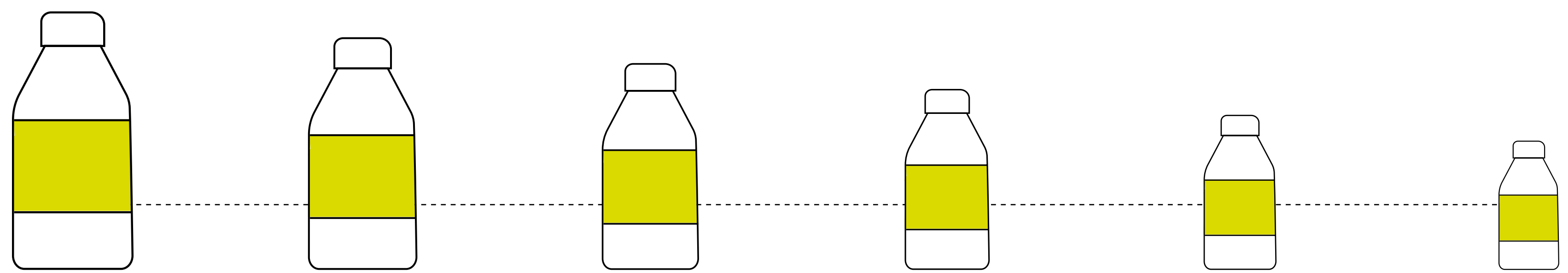
Single use plastic cups banned from campus for all in house catering and meetings



Full SUP audit of campus undertaken



No single use plastics on campus



Reduction in SUPs against baseline:

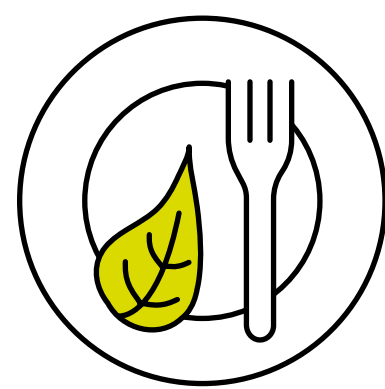
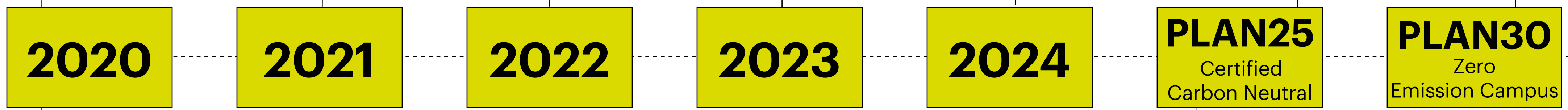
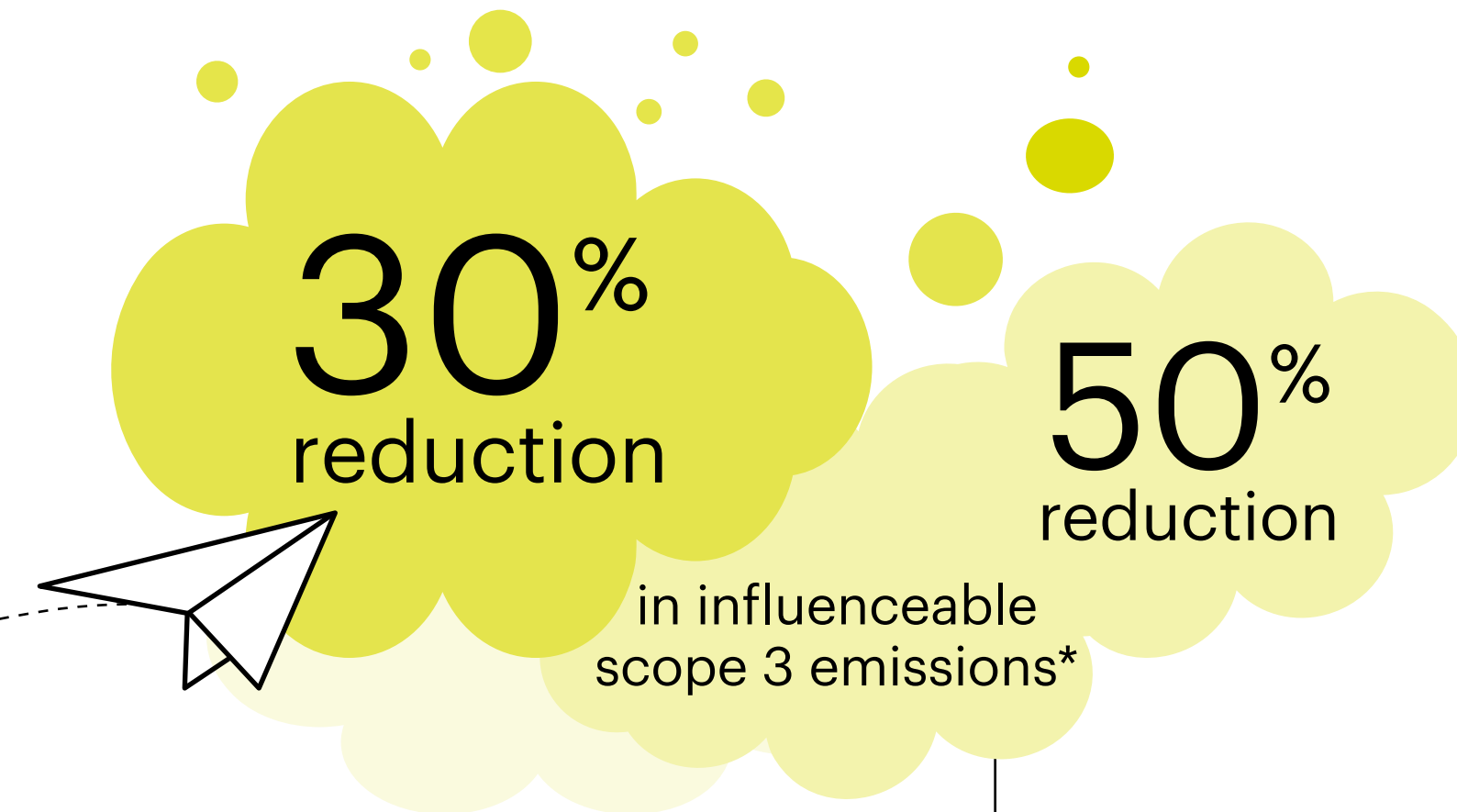
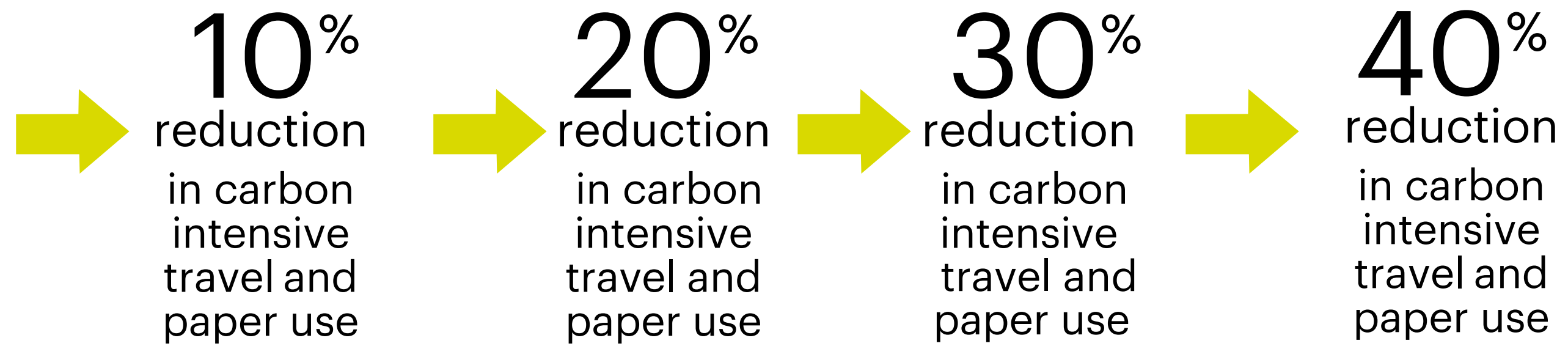
10% **20%** **30%** **40%** **50%**



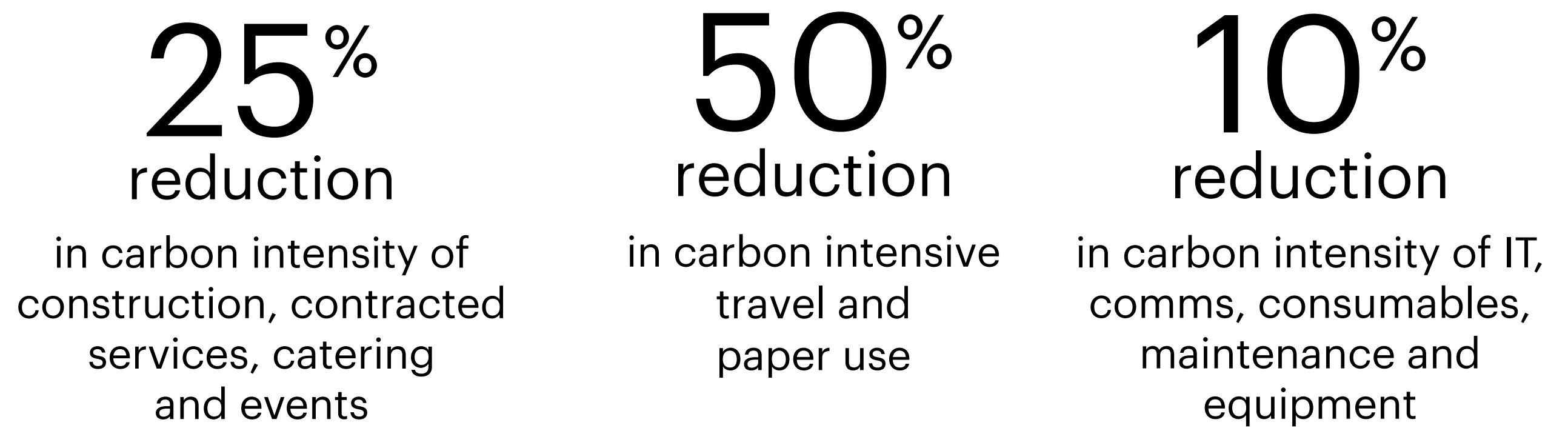
Decarbonisation of the value chain

Policies issued for:

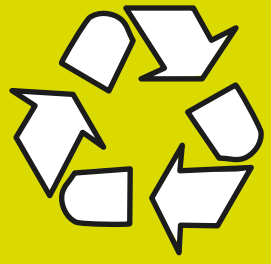
- Low carbon procurement
- Corporate travel
- Paper reduction
- Green construction



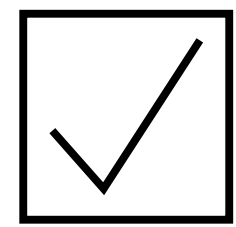
Low carbon catering enshrined in new catering provision - "green new meals"



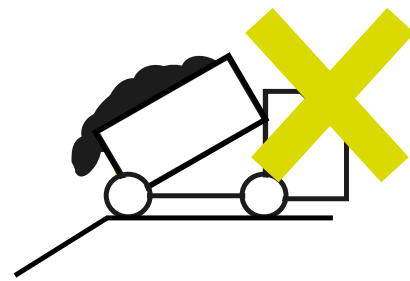
*against baseline



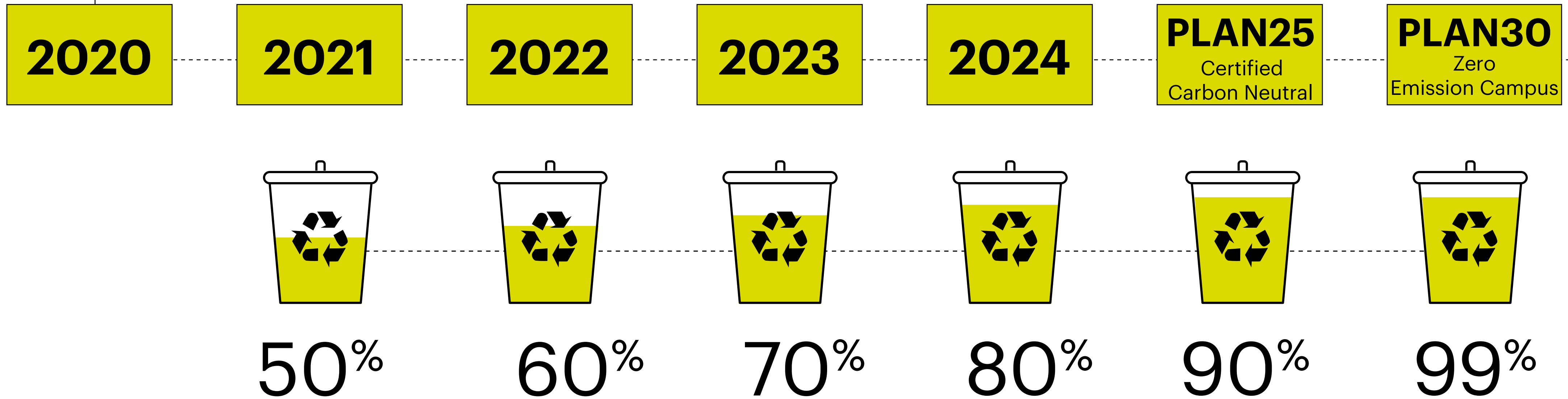
Increase in recycling of waste and 100% diversion from landfill



New contract installed



100% diversion from landfill for all waste originating within Goldsmiths scope of operations



Recycling rate of all waste originating within Goldsmiths operations