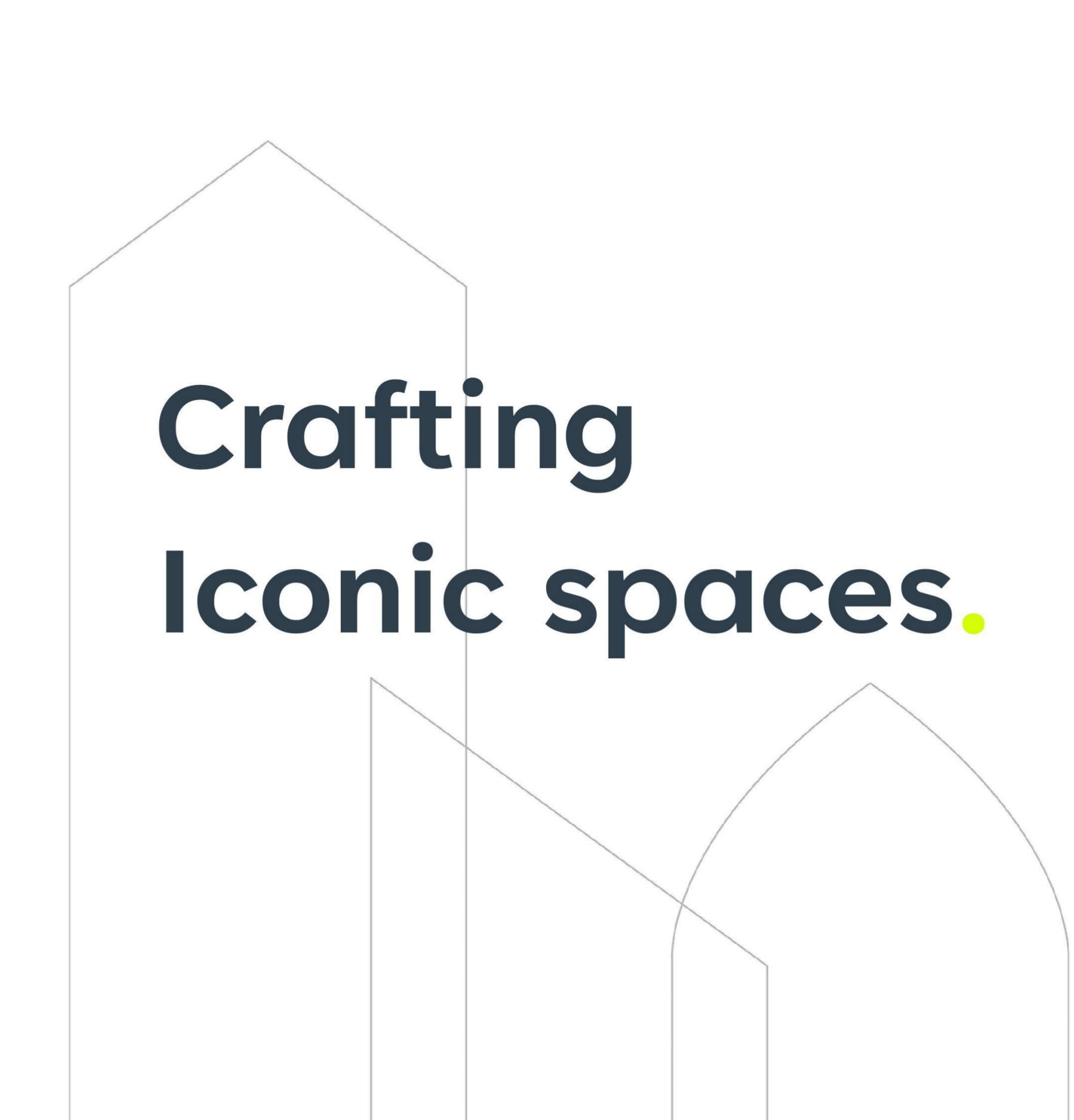


CP  
MG<sup>®</sup>



# NET ZERO & CARBON FOOTPRINT 2023-24

Let's create something **remarkable.**

The background features faint, light gray line art of architectural shapes, including a large house-like outline on the left and a smaller arched structure below it.

# Crafting Iconic spaces.

With over 30 years of experience, we've learned how to strike the perfect balance between big ideas and the more technical intricacies.



Let's create something together.



**We work all over  
the country**

and in...

China, India, Slovakia,  
Georgia and Abu Dhabi



Nottingham HQ

London & Birmingham Studios

UK and International client base

ISO 9001, ISO 14001, and ISO  
19650 accreditation

50+ staff

Architecture & Interior Design

**ABOUT US**



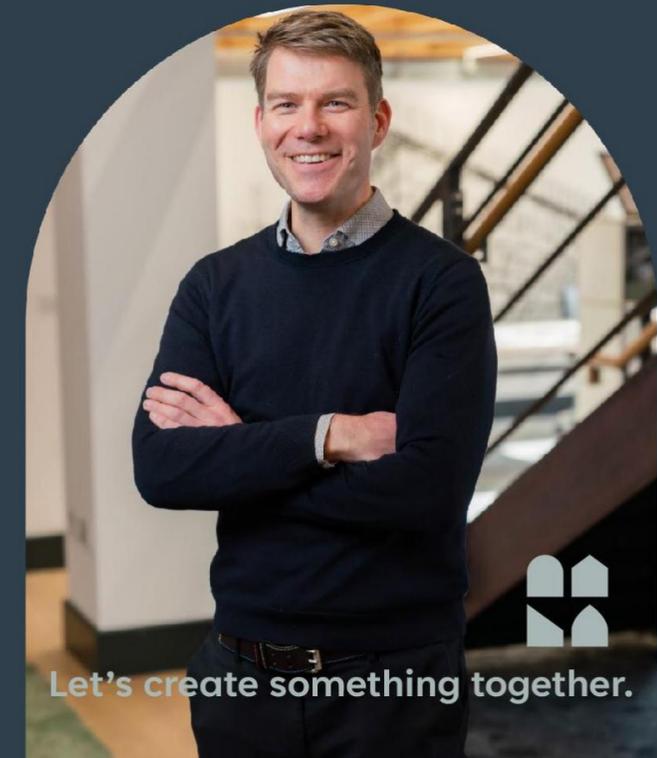
Let's create something together.



# Building for a Better Tomorrow

Sustainability is at the heart of everything we do. We are committed to building a better tomorrow through sustainable design and construction.

Our designs prioritise eco-friendly practices, energy efficiency, and reduced environmental footprints. We embrace innovative technologies and materials which promote long-term sustainability – which means your projects benefit today, and future generations inherit a responsible legacy.



Let's create something together.

# SUSTAINABLE DESIGN



The Forest School + Nursery  
Staffordshire University



# SUSTAINABLE DESIGN: LIFETIME ZERO CARBON



Let's create something together.



CPMG Architects  
St Peter's Gate Studios, Nottingham



# SUSTAINABLE DESIGN: CREATIVE RE-USE



Let's create something together.



## Our Carbon Reduction

- TOTAL GROSS EMISSIONS (SCOPE 1, 2 & 3)**
- GROSS EMISSIONS (SCOPE 1 & 2)**
- NET EMISSIONS AFTER OFFSETTING (AGAINST SCOPE 1, 2 & 3)**
- OFFSETTING VIA CLIMACARE, FOREST CARBON, AND REGO-CERTIFIED ELECTRICITY**

## Future Reductions

- Net zero carbon target by 2040
- EVS for business travel
- Evs for commuting
- Increased travel by train
- Investment in renewables

**UK First**

Delivery of the UK's first commercial PassivHaus building

Certified PassivHaus Designers

Delivery of 22no. BREEAM Excellent buildings

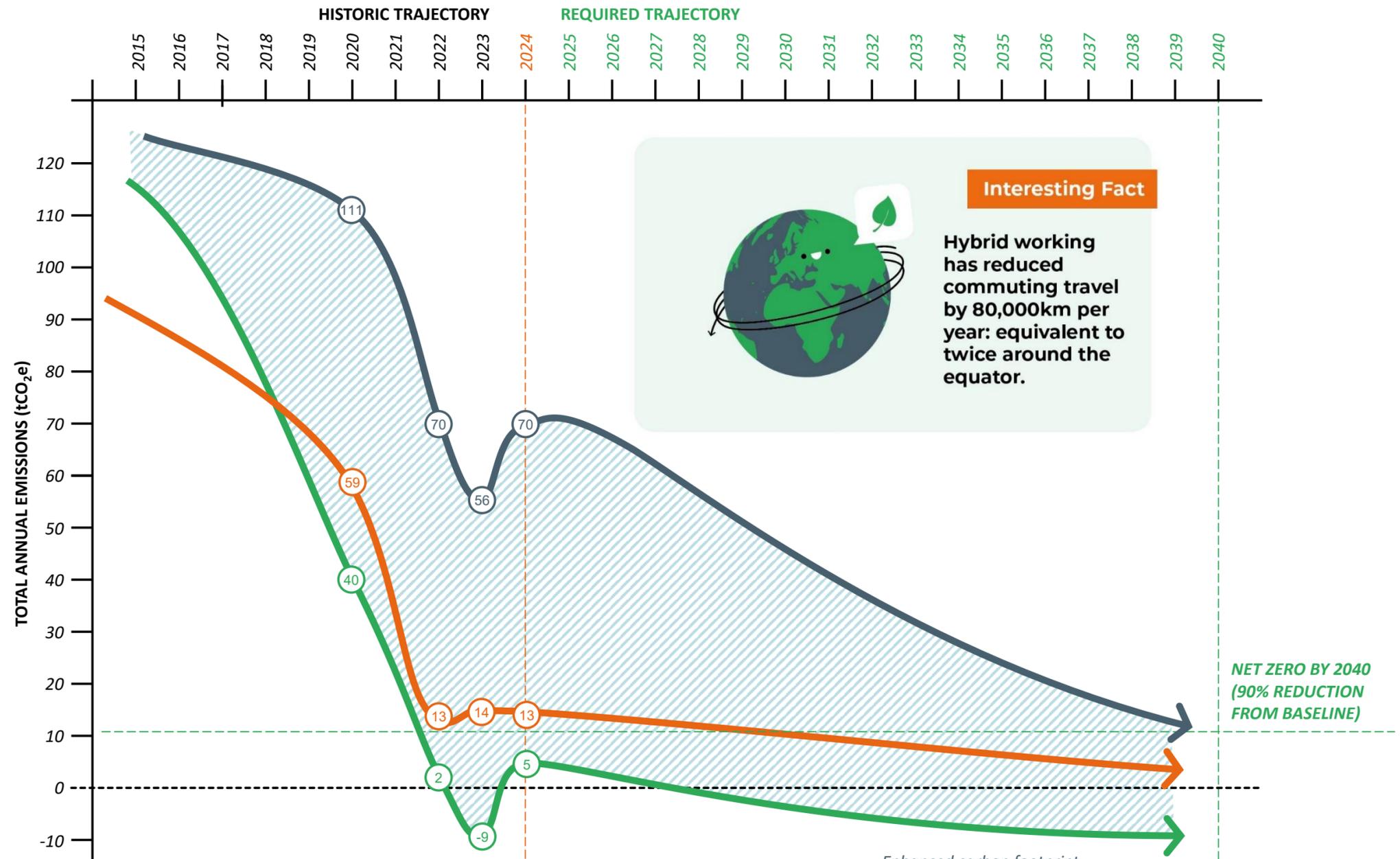
**2060**

Designer of DfE's Lifetime Zero Carbon Sustainability Pathfinder at Maritime Academy

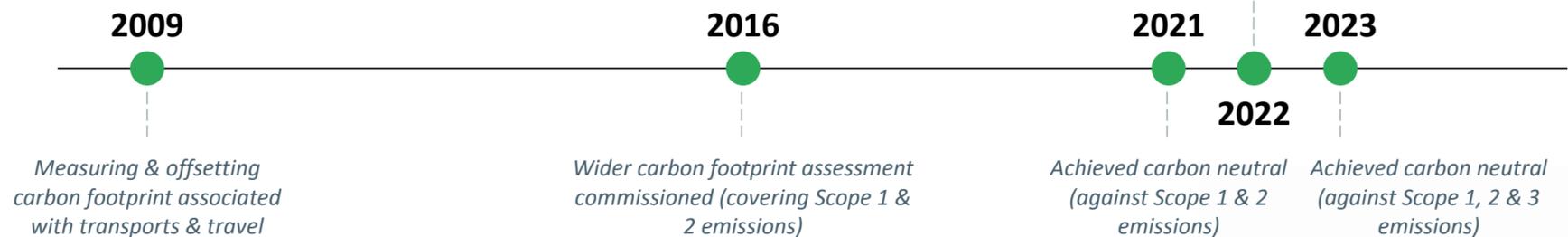
**2060**

Delivery of Lifetime Zero Carbon Forest School Nursery at University of Staffordshire

Signatories to the RIBA 2030 Challenge and the SME Climate Hub



## CPMG Carbon Reduction Journey



# CARBON EMISSIONS: PROGRESS TO DATE



### Scope 1:

- Gas Consumption (Nottingham)
- Gas Consumption (London)
- Gas Consumption (Birmingham)
- Air-con Coolant Replenishment (Nottingham)
- Business Travel - Company vehicles

### Scope 2:

- Electricity Consumption (Nottingham)
- Electricity Consumption (London)
- Electricity Consumption (Birmingham)

### Scope 3:

- Distribution Losses – Gas (WTT)
- Distribution Losses – Electricity (T&D)
- Water Supply & Treatment (Nottingham)
- Water Supply & Treatment (London)
- Water Supply & Treatment (Birmingham)
- Business Travel – Private Car
- Business Travel – Air
- Business Travel – Taxi
- Business Travel – Rail
- Business Travel – Bus
- Hotel Stays
- General Waste (Nottingham)
- Recycled Waste (Nottingham)
- WEEE Electronic Recycled Waste
- Paper Purchase (Nottingham)
- ICT Electronics Purchase
- Working from Home
- Staff Commuting
- Off-site Data Storage & Servers

### Key:

- Measured since 2015-16
- Measured since 2019-20 with support from NTU Sustainability Team to set Baseline Year
- Measured since 2022-23



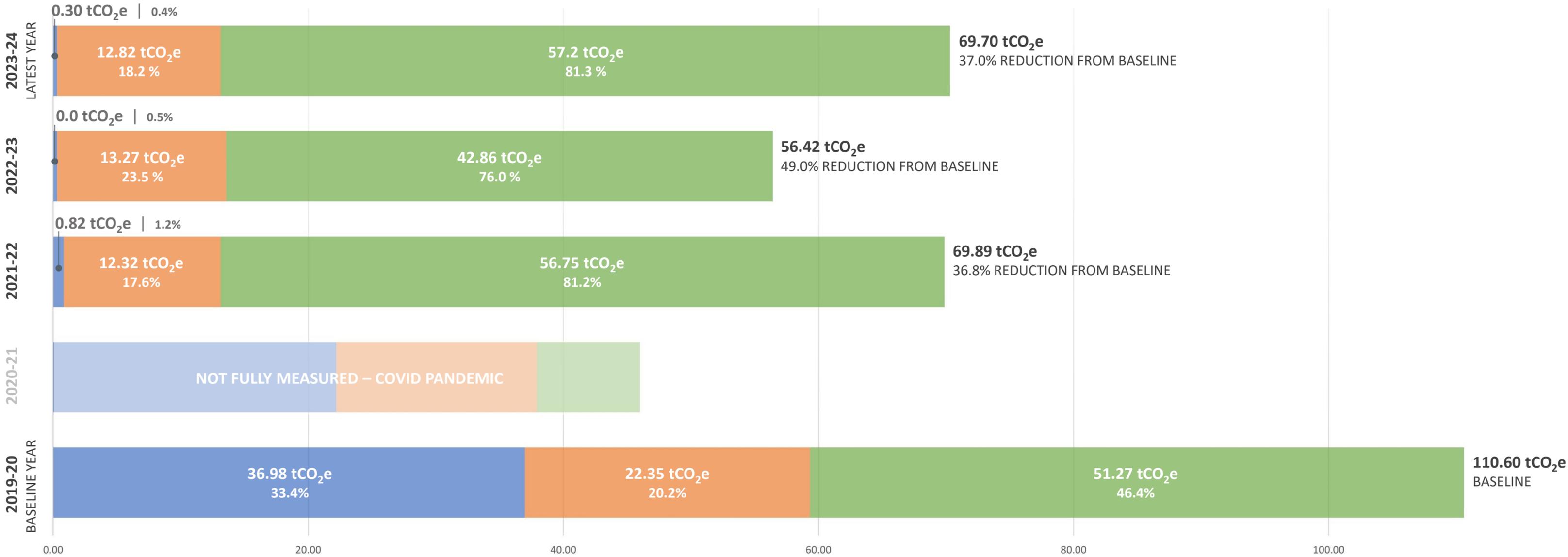
# CARBON EMISSIONS: SCOPE OF ASSESSMENT



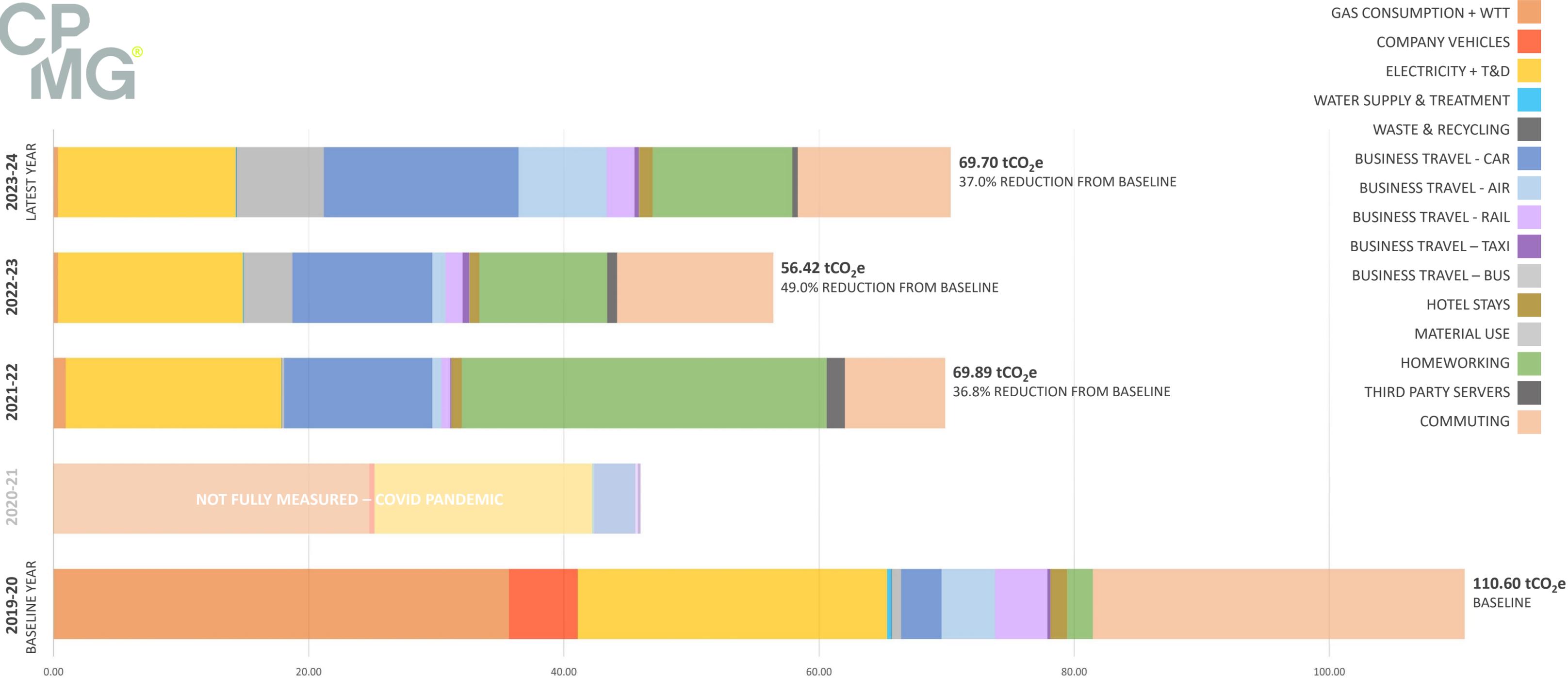
Let's create something together.



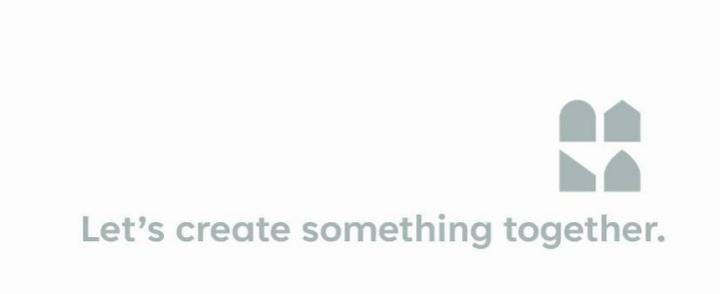
SCOPE 1 EMISSIONS - DIRECT   
SCOPE 2 EMISSIONS - INDIRECT   
SCOPE 3 EMISSIONS – SUPPLY CHAIN 



# OVERVIEW: BY SCOPE



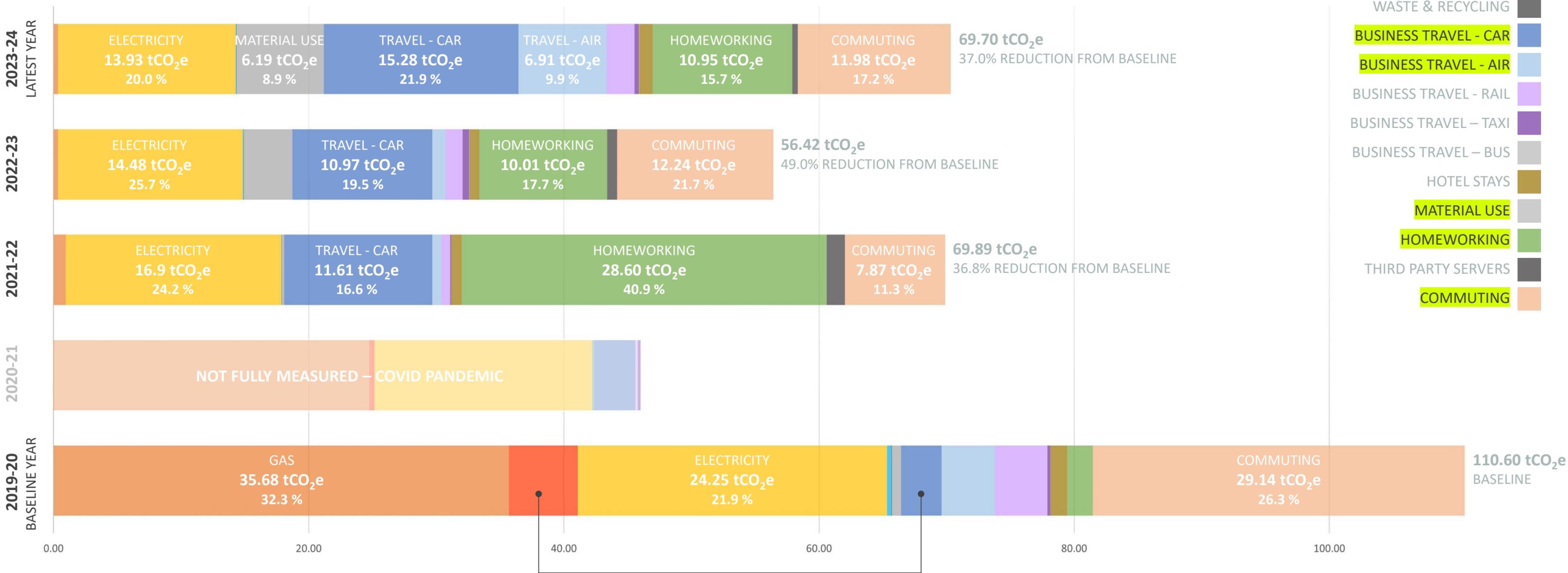
# OVERVIEW: DETAIL





**SIX PRINCIPAL CONTRIBUTORS:**

- GAS CONSUMPTION + WTT
- COMPANY VEHICLES
- ELECTRICITY + T&D**
- WATER SUPPLY & TREATMENT
- WASTE & RECYCLING
- BUSINESS TRAVEL - CAR**
- BUSINESS TRAVEL - AIR**
- BUSINESS TRAVEL - RAIL
- BUSINESS TRAVEL - TAXI
- BUSINESS TRAVEL - BUS
- HOTEL STAYS
- MATERIAL USE**
- HOMEWORKING**
- THIRD PARTY SERVERS
- COMMUTING**



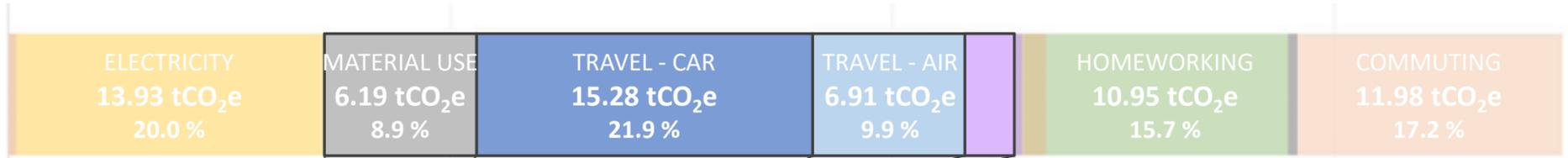
# OVERVIEW: DETAIL

Let's create something together.

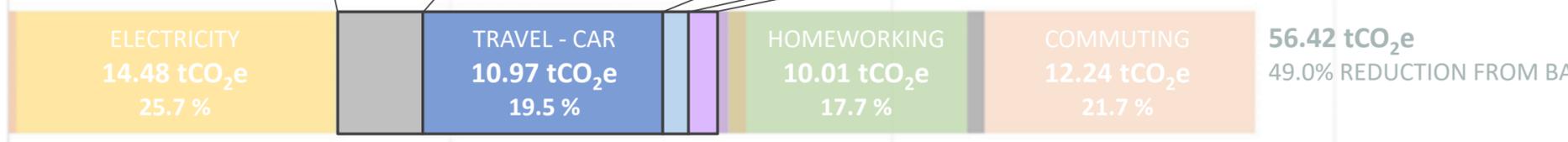


**MAIN INCREASES FROM 2022-23**

2023-24  
LATEST YEAR



2022-23



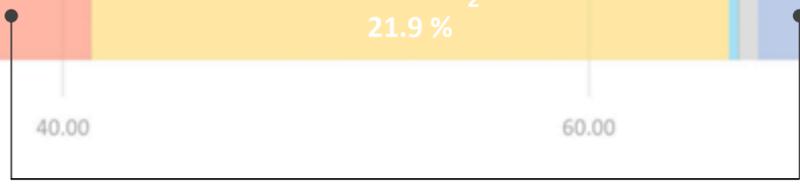
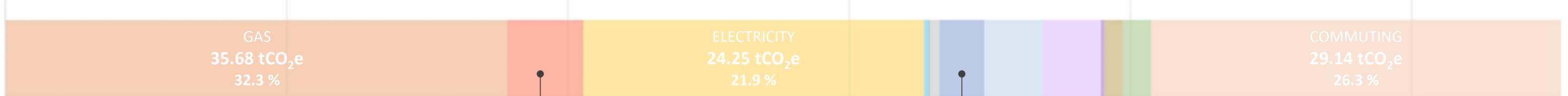
2021-22



2020-21

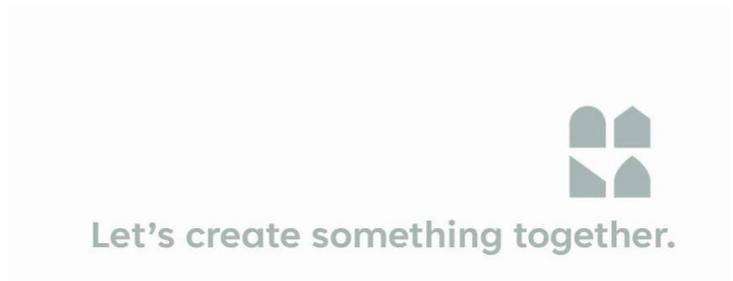


2019-20  
BASELINE YEAR



- GAS CONSUMPTION + WTT
- COMPANY VEHICLES
- ELECTRICITY + T&D
- WATER SUPPLY & TREATMENT
- WASTE & RECYCLING
- +39%** BUSINESS TRAVEL - CAR
- +564%** BUSINESS TRAVEL - AIR
- +64%** BUSINESS TRAVEL - RAIL
- BUSINESS TRAVEL - TAXI
- BUSINESS TRAVEL - BUS
- +79%** MATERIAL USE
- HOMEWORKING
- THIRD PARTY SERVERS
- COMMUTING

# OVERVIEW: DETAIL

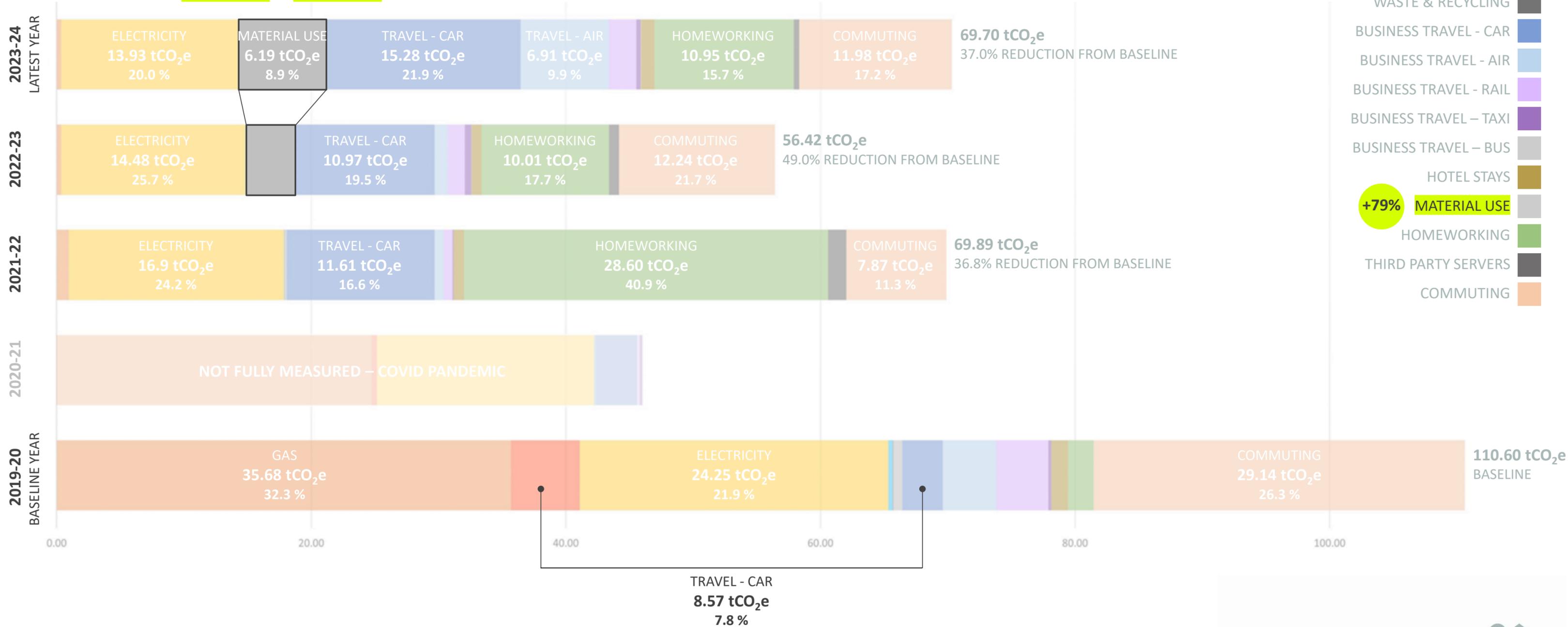




14no. CURVED MONITORS  
+ 4.4 tCO<sub>2</sub>e

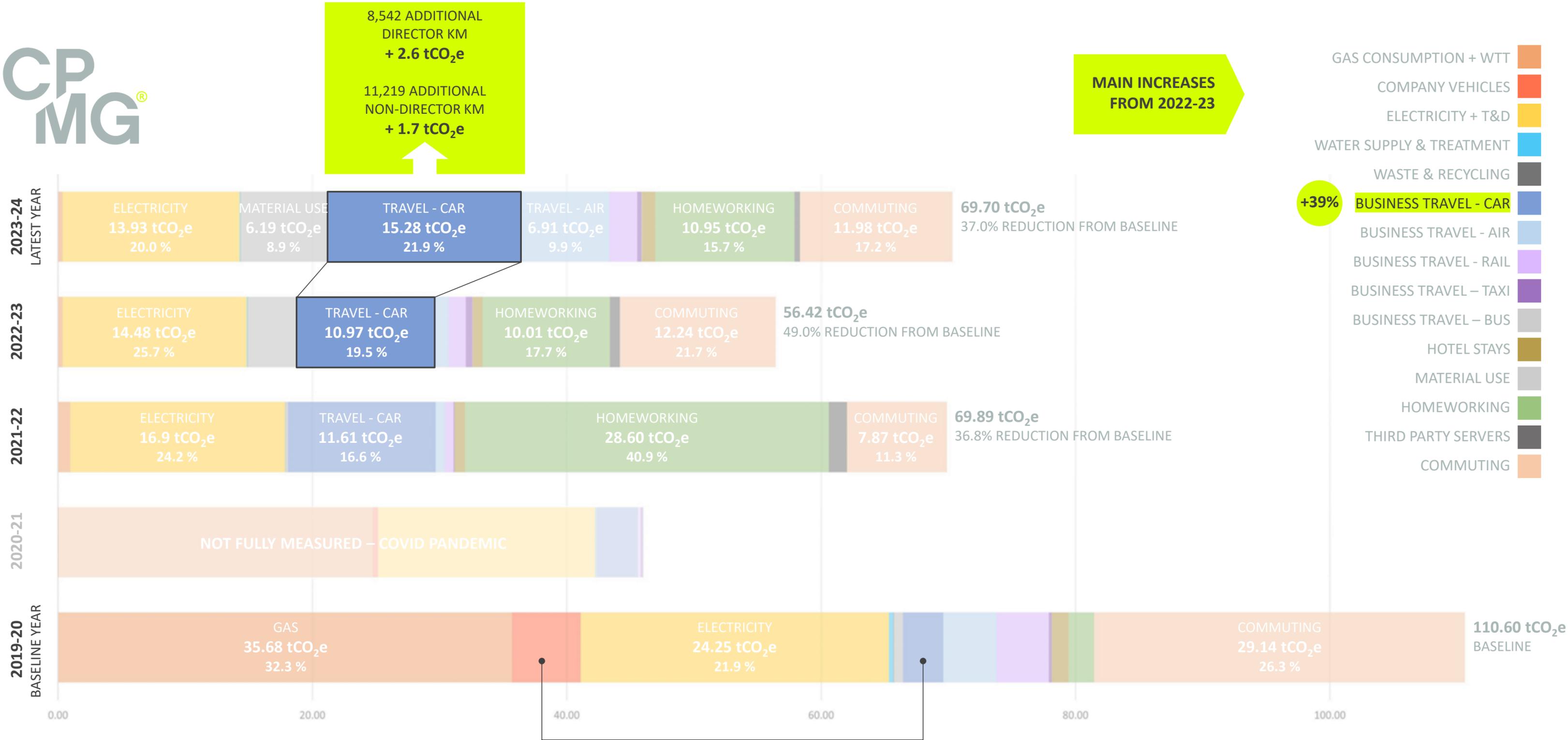
MAIN INCREASES  
FROM 2022-23

- GAS CONSUMPTION + WTT
- COMPANY VEHICLES
- ELECTRICITY + T&D
- WATER SUPPLY & TREATMENT
- WASTE & RECYCLING
- BUSINESS TRAVEL - CAR
- BUSINESS TRAVEL - AIR
- BUSINESS TRAVEL - RAIL
- BUSINESS TRAVEL - TAXI
- BUSINESS TRAVEL - BUS
- HOTEL STAYS
- +79% MATERIAL USE**
- HOMEWORKING
- THIRD PARTY SERVERS
- COMMUTING

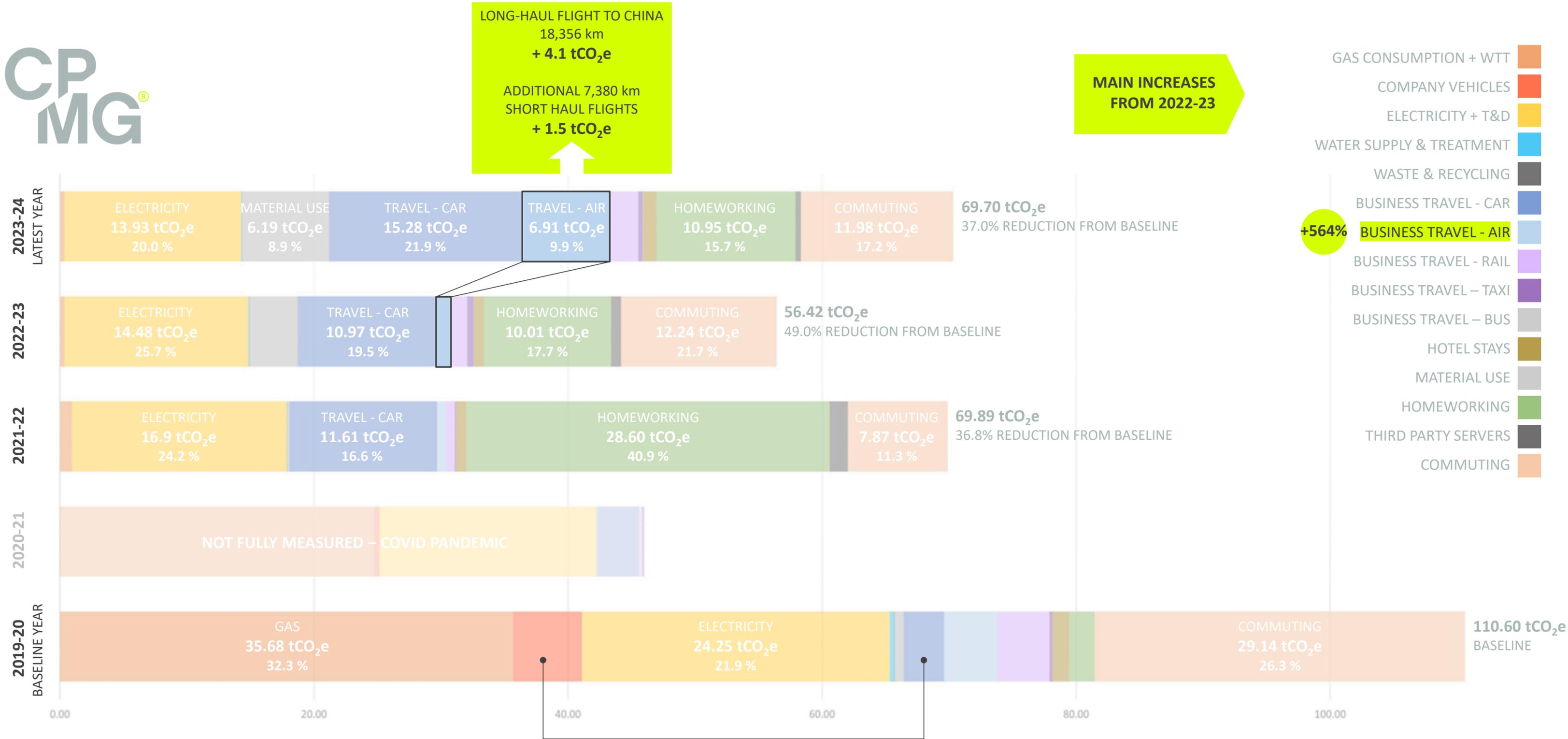


# OVERVIEW: DETAIL

Let's create something together.



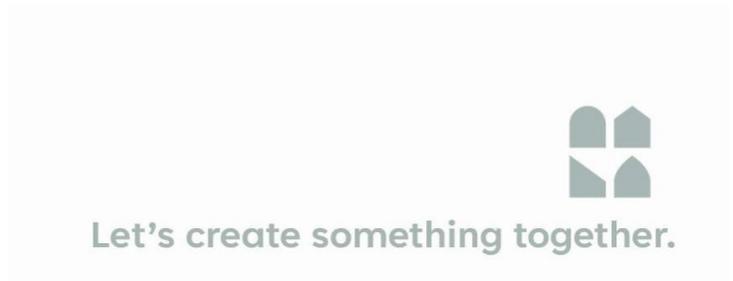
# OVERVIEW: DETAIL

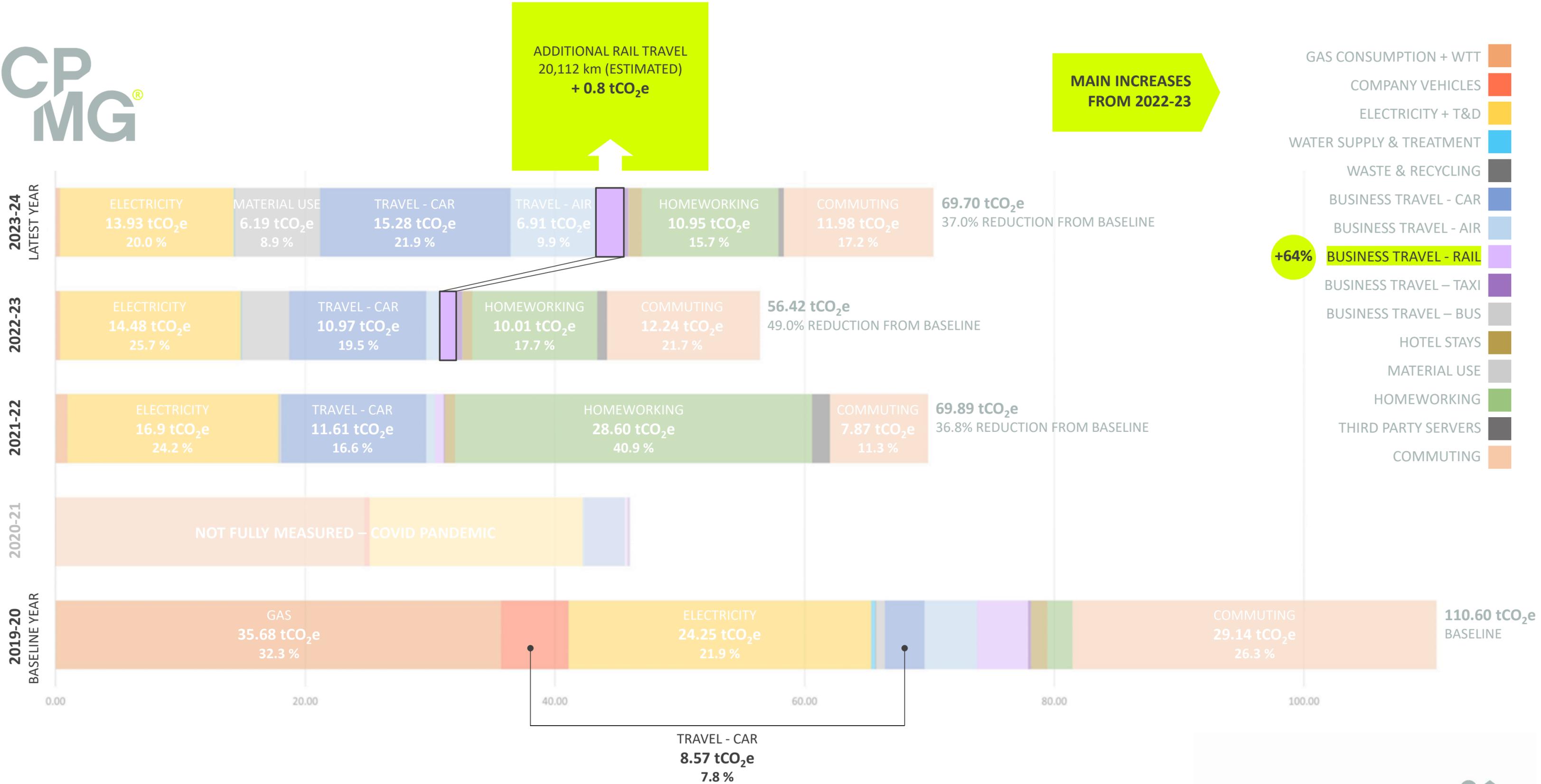


**MAIN INCREASES FROM 2022-23**

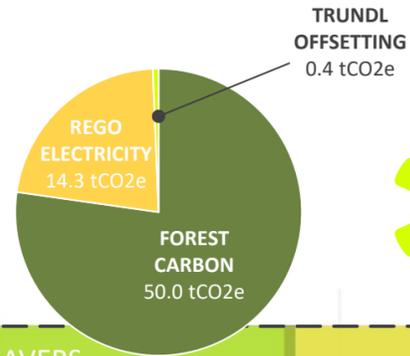
**+564%** BUSINESS TRAVEL - AIR

# OVERVIEW: DETAIL

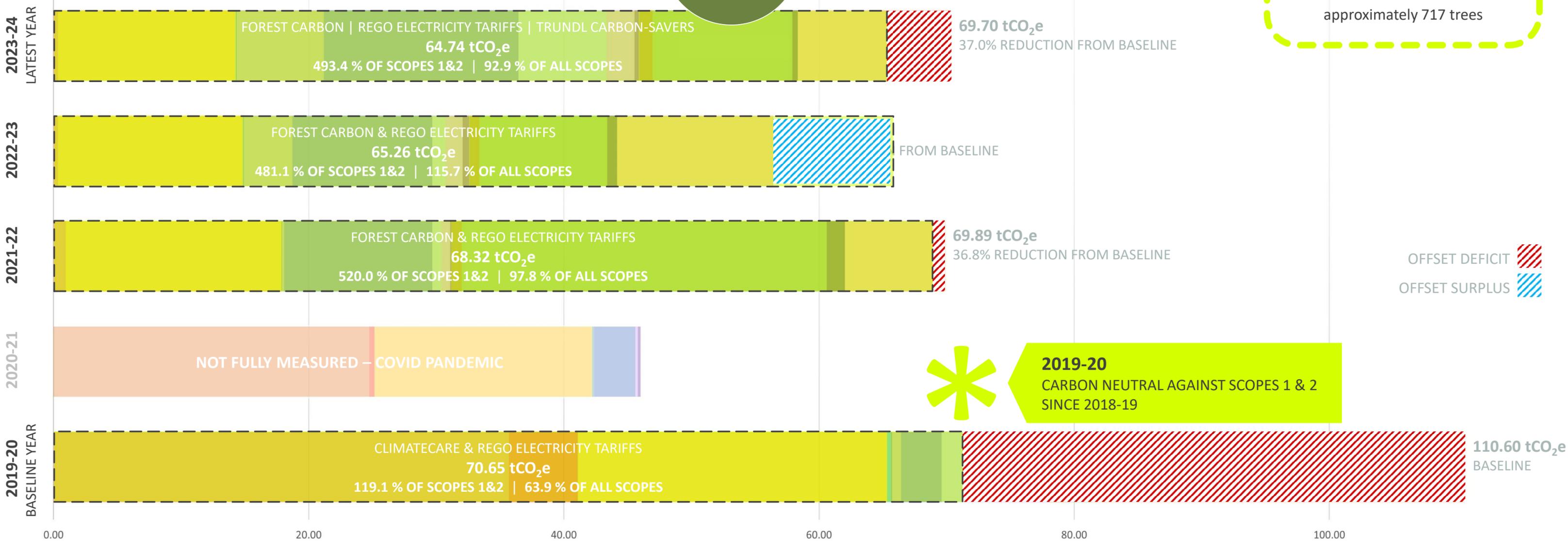




# OVERVIEW: DETAIL



We have been a member of Forest Carbon since 2021. In this time, we have captured a total of 179.3 tonnes of CO<sub>2</sub>, and planted approximately 717 trees



**2022-23 & 2023-24**  
CARBON NEUTRAL AGAINST FULL SCOPE OF ASSESSMENT (IN COMBINATION)

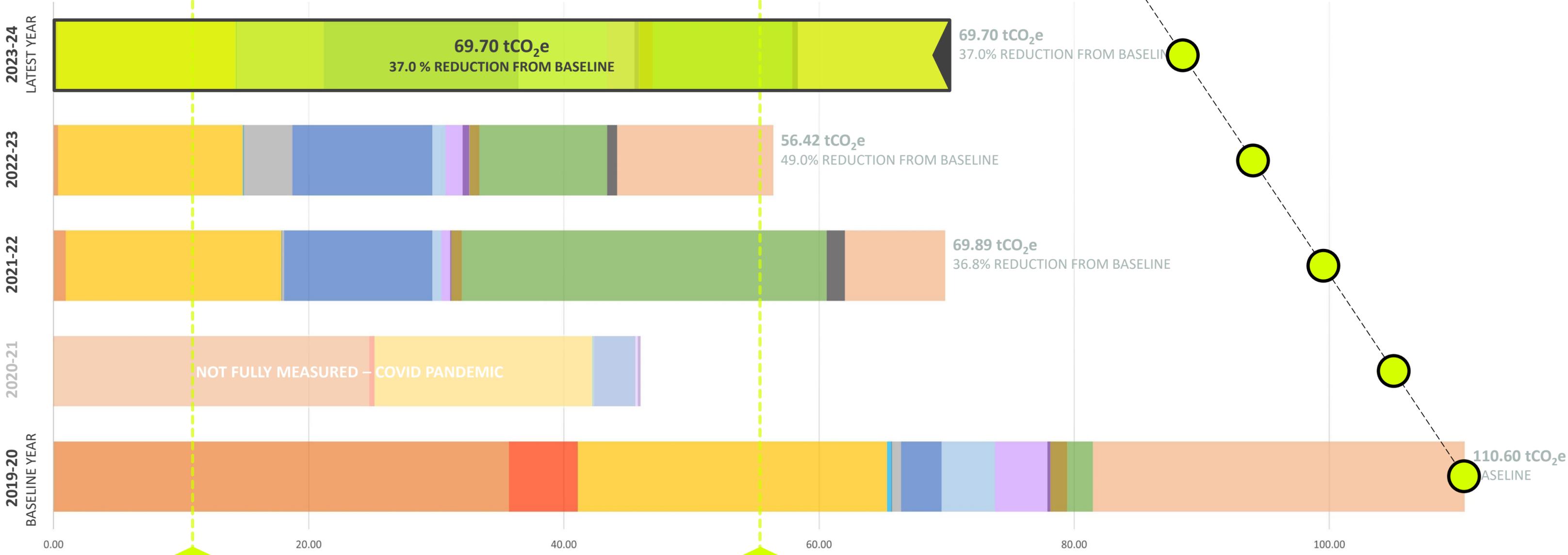
**2019-20**  
CARBON NEUTRAL AGAINST SCOPES 1 & 2 SINCE 2018-19

OFFSET DEFICIT (Red hatched)  
OFFSET SURPLUS (Blue hatched)

# PROGRESS TOWARDS CARBON NEUTRAL



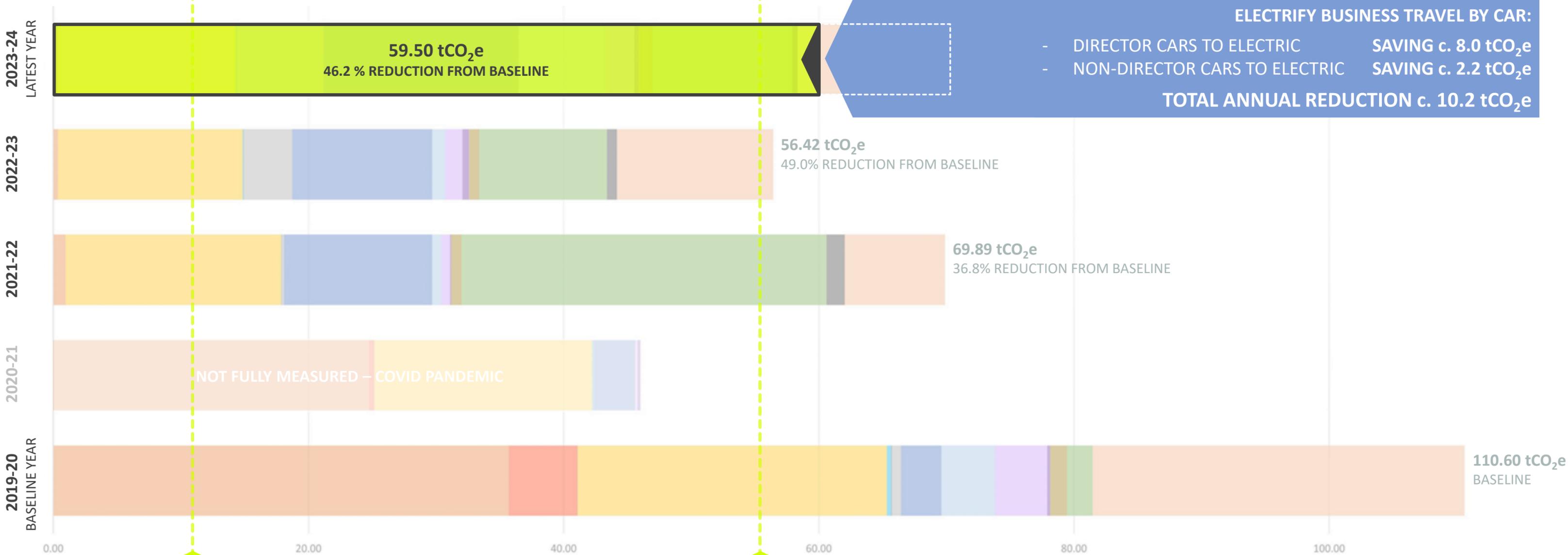
**MINIMUM TRAJECTORY**  
2.295 tCO<sub>2</sub>e REDUCTION PER YEAR, EVERY YEAR



**2040**  
90% REDUCTION  
(11.06 tCO<sub>2</sub>e)

**2030**  
50% REDUCTION  
(55.30 tCO<sub>2</sub>e)

# PROGRESS TOWARDS NET ZERO



**ELECTRIFY BUSINESS TRAVEL BY CAR:**

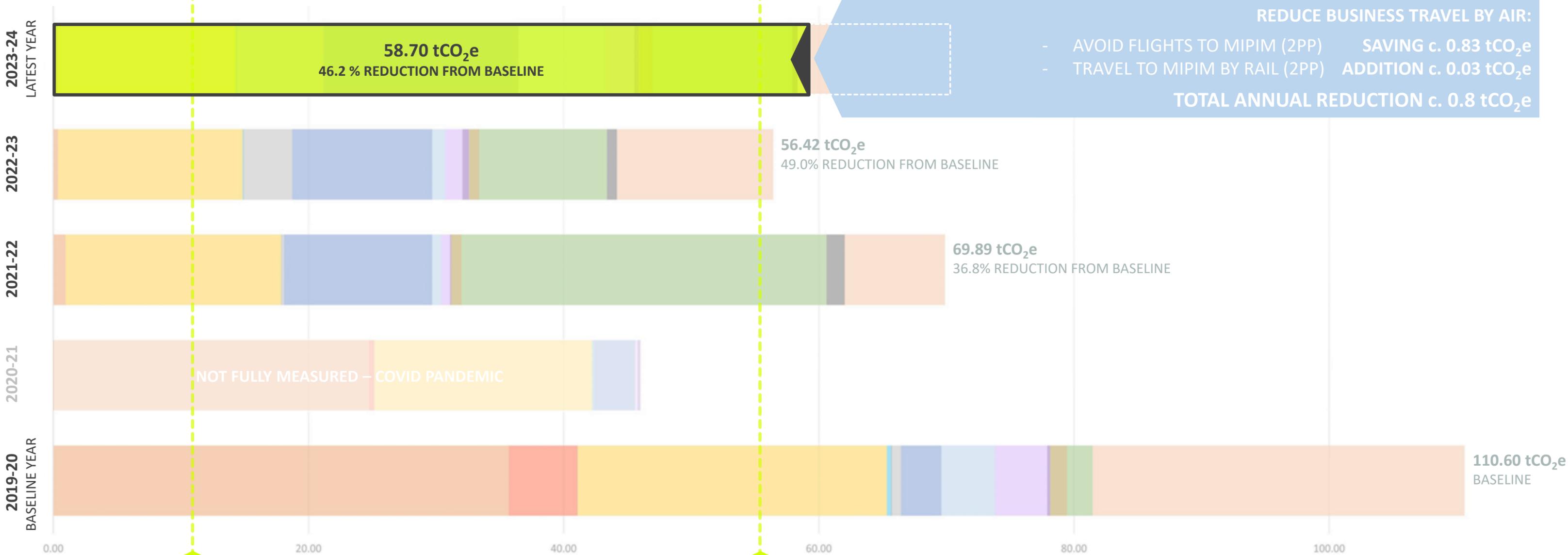
- DIRECTOR CARS TO ELECTRIC SAVING c. 8.0 tCO<sub>2</sub>e
- NON-DIRECTOR CARS TO ELECTRIC SAVING c. 2.2 tCO<sub>2</sub>e

**TOTAL ANNUAL REDUCTION c. 10.2 tCO<sub>2</sub>e**

**2040**  
90% REDUCTION  
(11.06 tCO<sub>2</sub>e)

**2030**  
50% REDUCTION  
(55.30 tCO<sub>2</sub>e)

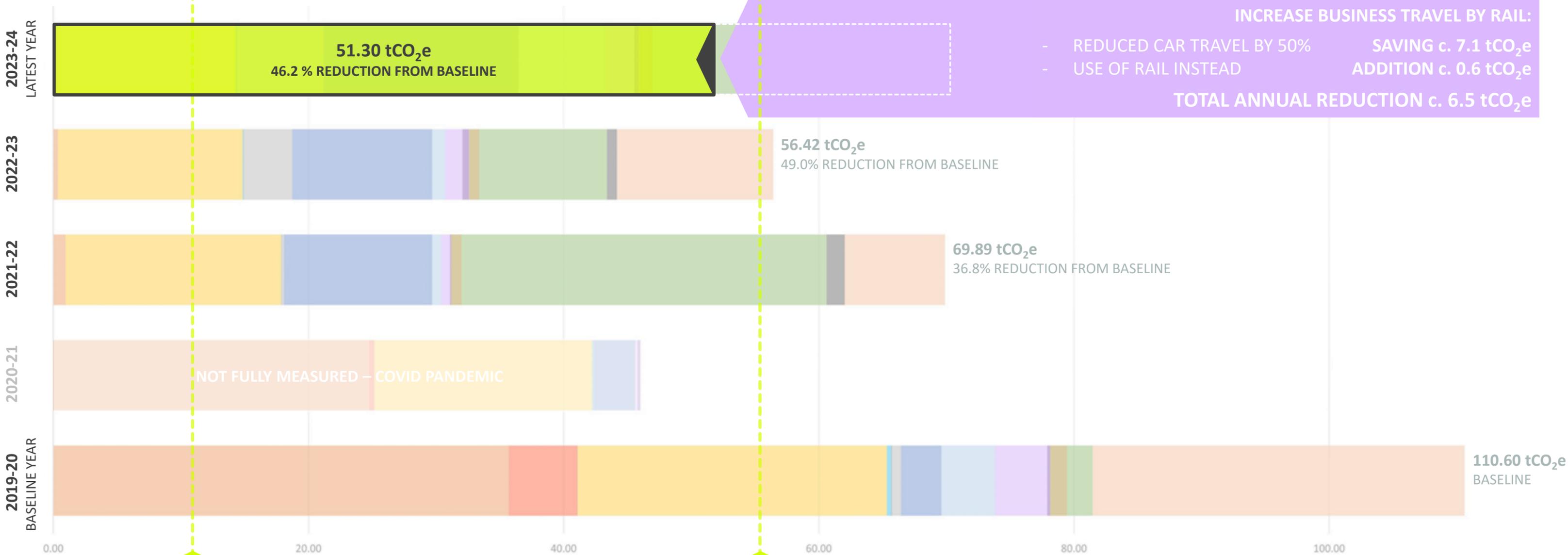
# POTENTIAL FUTURE REDUCTIONS: BY 2030



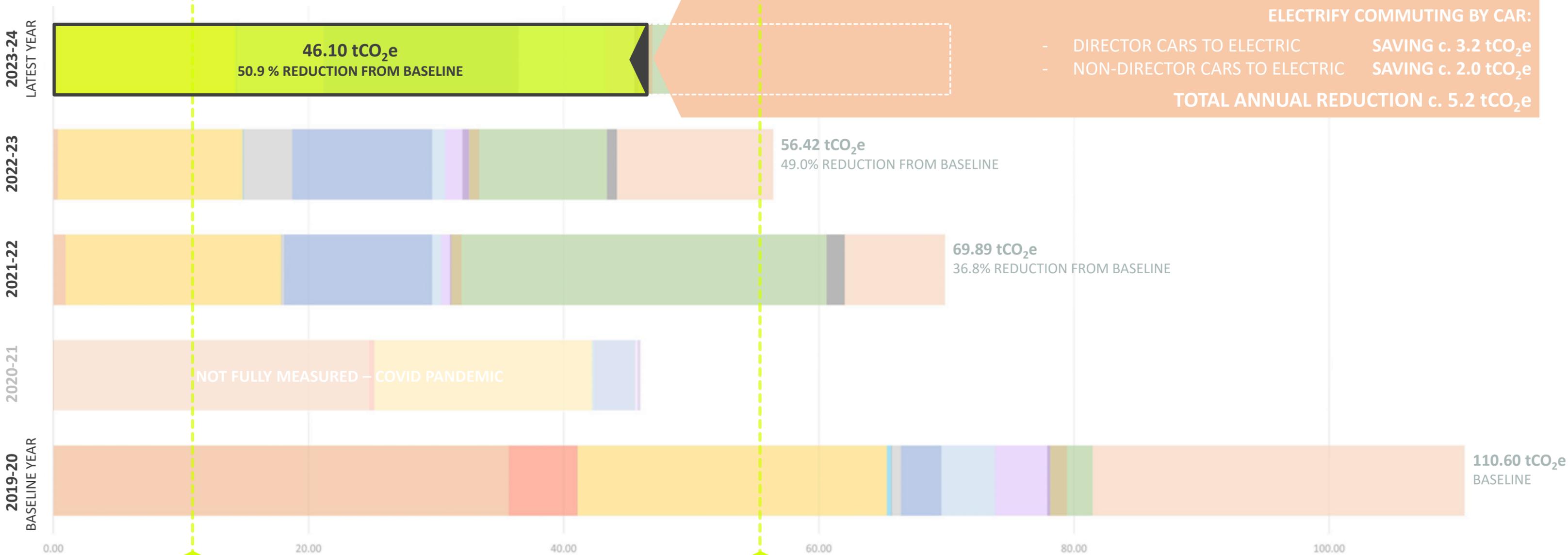
**2040**  
90% REDUCTION  
(11.06 tCO<sub>2</sub>e)

**2030**  
50% REDUCTION  
(55.30 tCO<sub>2</sub>e)

# POTENTIAL FUTURE REDUCTIONS: BY 2030



# POTENTIAL FUTURE REDUCTIONS: BY 2030



**ELECTRIFY COMMUTING BY CAR:**

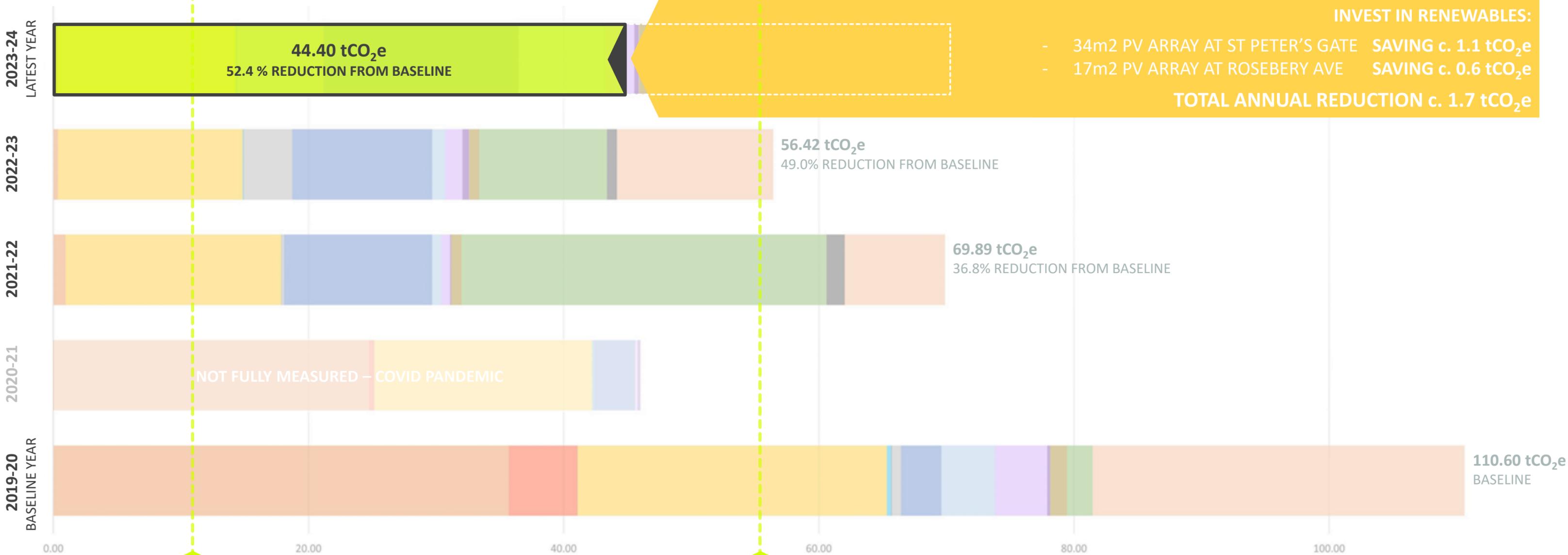
- DIRECTOR CARS TO ELECTRIC SAVING c. 3.2 tCO<sub>2</sub>e
- NON-DIRECTOR CARS TO ELECTRIC SAVING c. 2.0 tCO<sub>2</sub>e

**TOTAL ANNUAL REDUCTION c. 5.2 tCO<sub>2</sub>e**

**2040**  
90% REDUCTION  
(11.06 tCO<sub>2</sub>e)

**2030**  
50% REDUCTION  
(55.30 tCO<sub>2</sub>e)

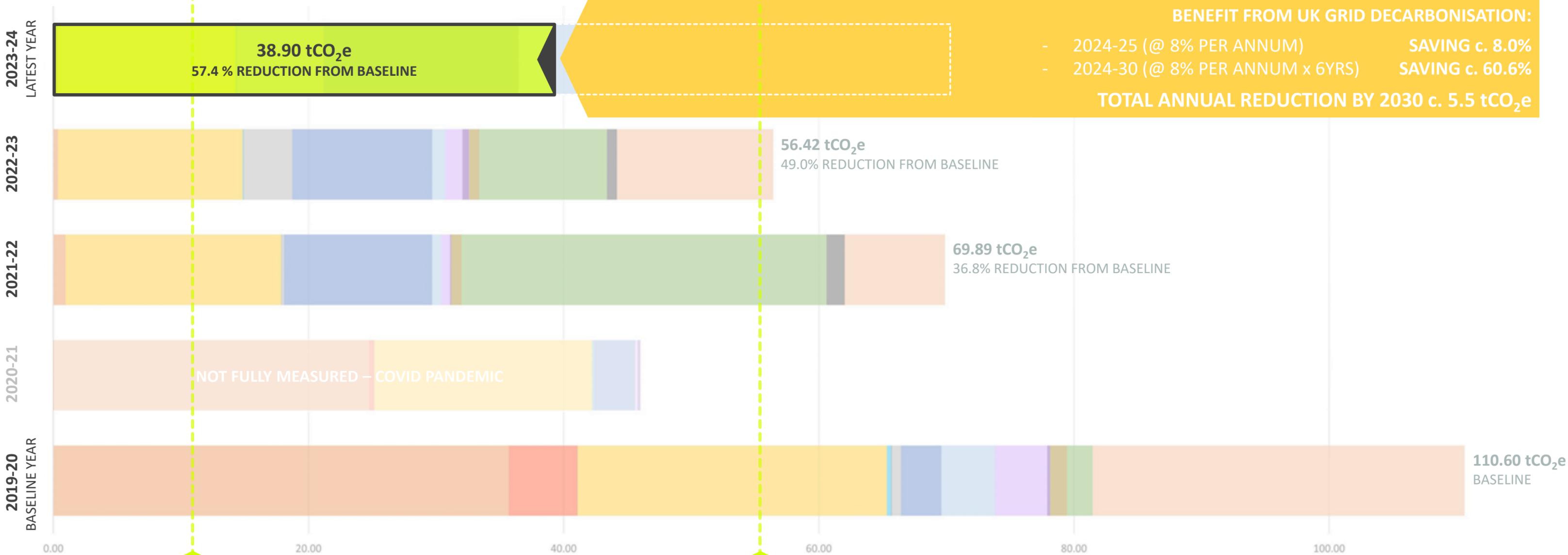
# POTENTIAL FUTURE REDUCTIONS: BY 2030



**2040**  
90% REDUCTION  
(11.06 tCO<sub>2</sub>e)

**2030**  
50% REDUCTION  
(55.30 tCO<sub>2</sub>e)

# POTENTIAL FUTURE REDUCTIONS: BY 2030



**BENEFIT FROM UK GRID DECARBONISATION:**

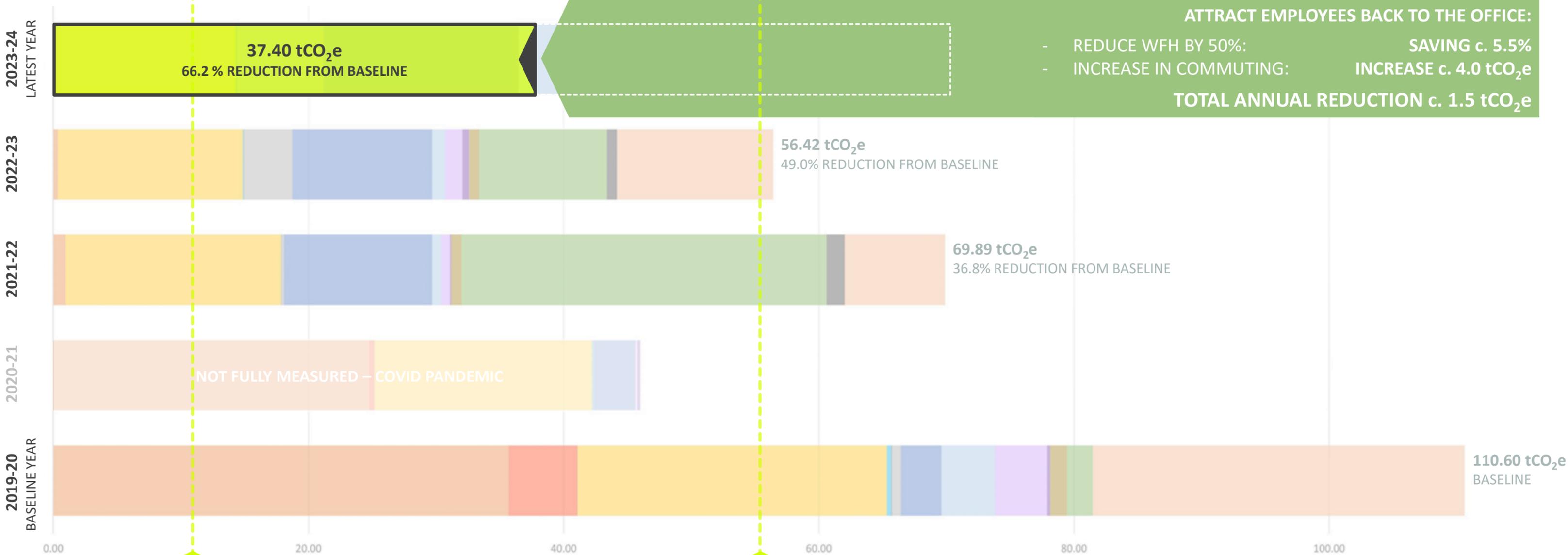
- 2024-25 (@ 8% PER ANNUM) SAVING c. 8.0%
- 2024-30 (@ 8% PER ANNUM x 6YRS) SAVING c. 60.6%

**TOTAL ANNUAL REDUCTION BY 2030 c. 5.5 tCO<sub>2</sub>e**

**2040**  
90% REDUCTION  
(11.06 tCO<sub>2</sub>e)

**2030**  
50% REDUCTION  
(55.30 tCO<sub>2</sub>e)

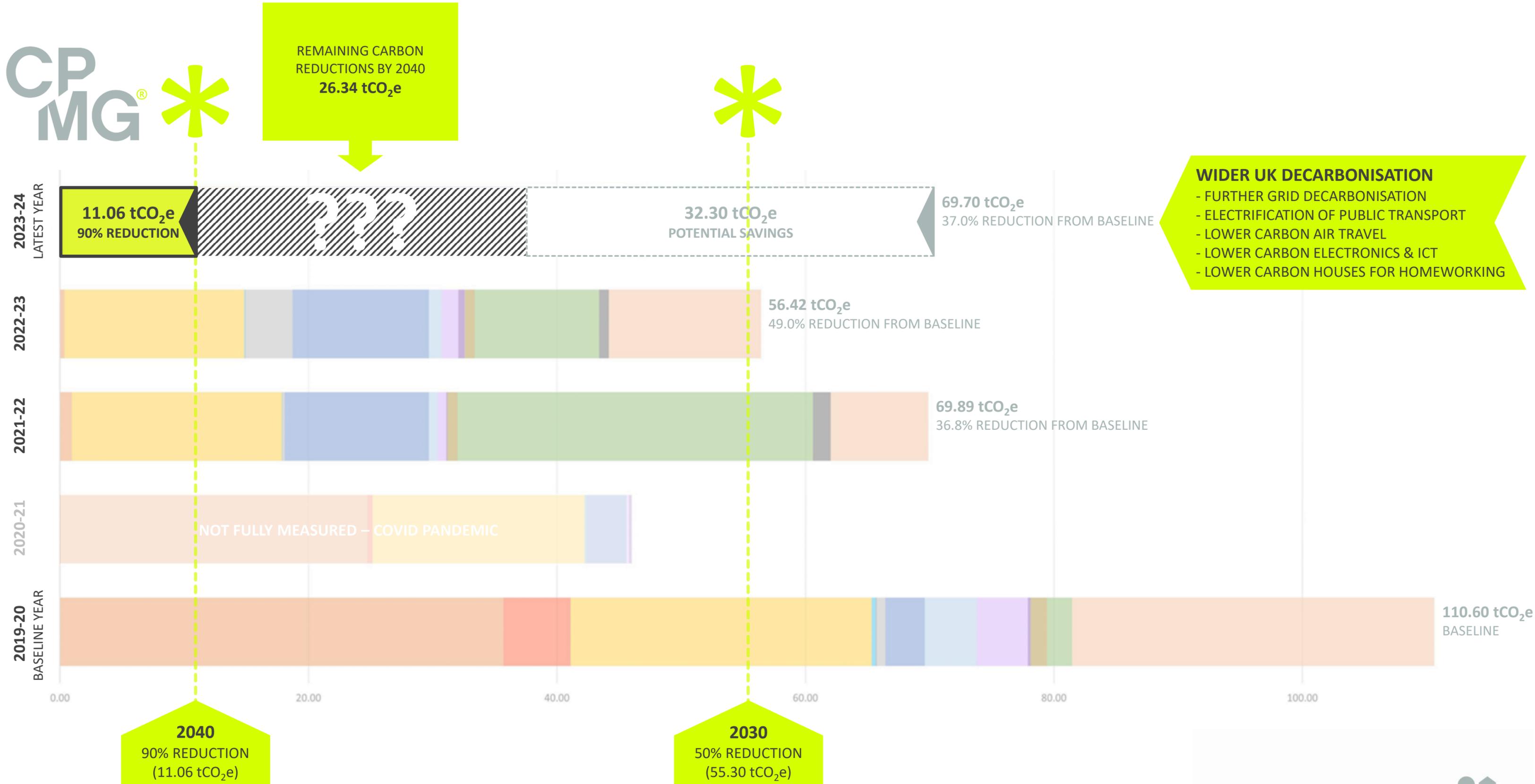
# POTENTIAL FUTURE REDUCTIONS: BY 2030



**2040**  
90% REDUCTION  
(11.06 tCO<sub>2</sub>e)

**2030**  
50% REDUCTION  
(55.30 tCO<sub>2</sub>e)

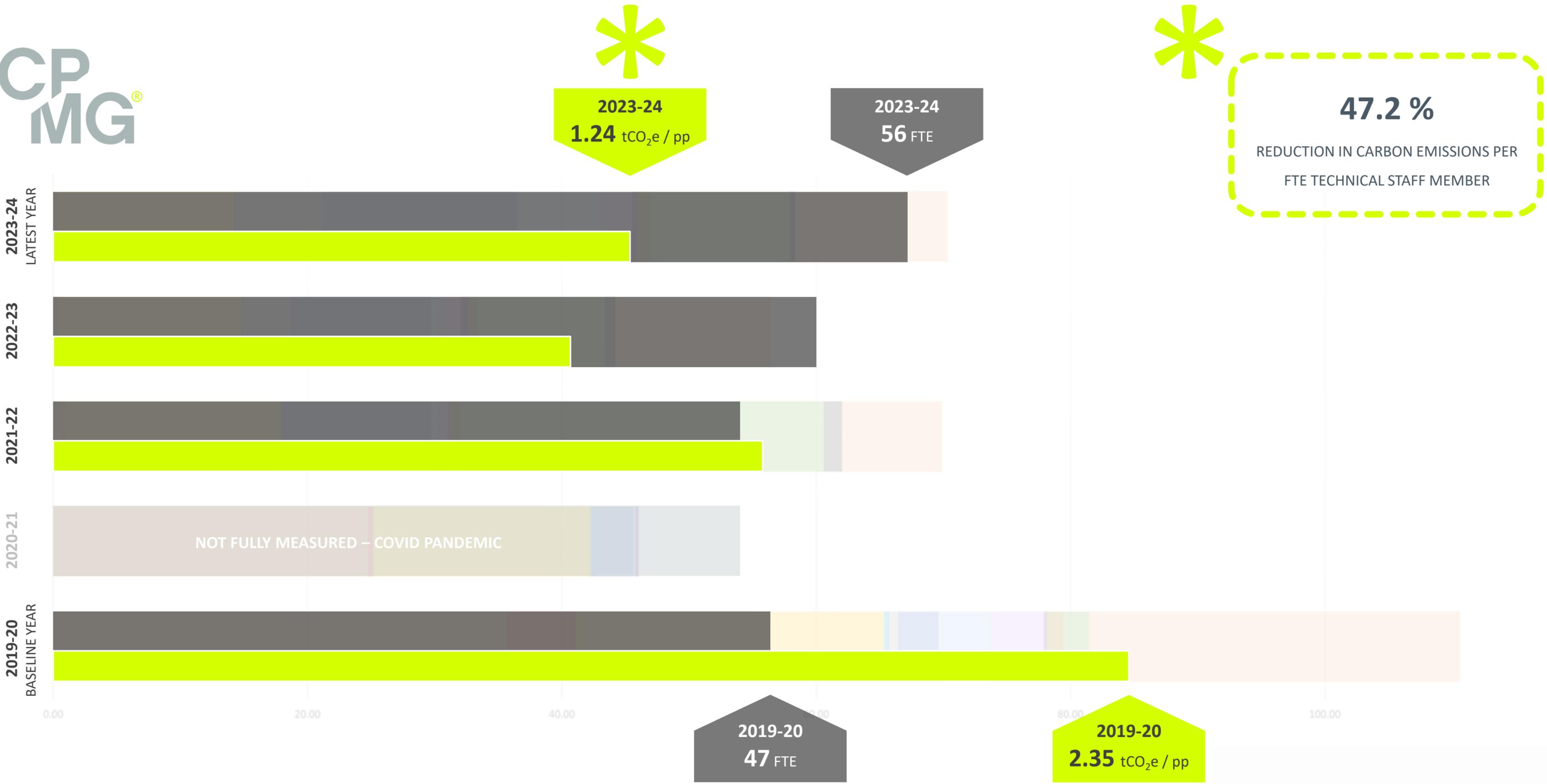
# POTENTIAL FUTURE REDUCTIONS: BY 2030



**WIDER UK DECARBONISATION**

- FURTHER GRID DECARBONISATION
- ELECTRIFICATION OF PUBLIC TRANSPORT
- LOWER CARBON AIR TRAVEL
- LOWER CARBON ELECTRONICS & ICT
- LOWER CARBON HOUSES FOR HOMEWORKING

# REMAINING REDUCTIONS: BY 2040



**47.2 %**  
REDUCTION IN CARBON EMISSIONS PER  
FTE TECHNICAL STAFF MEMBER

**ADDITIONAL METRICS: tCO<sub>2</sub>e / STAFF FTE**



Let's create  
something  
**remarkable.**

LOCATIONS Nottingham | London | Birmingham | Hangzhou, China | Pune, India

