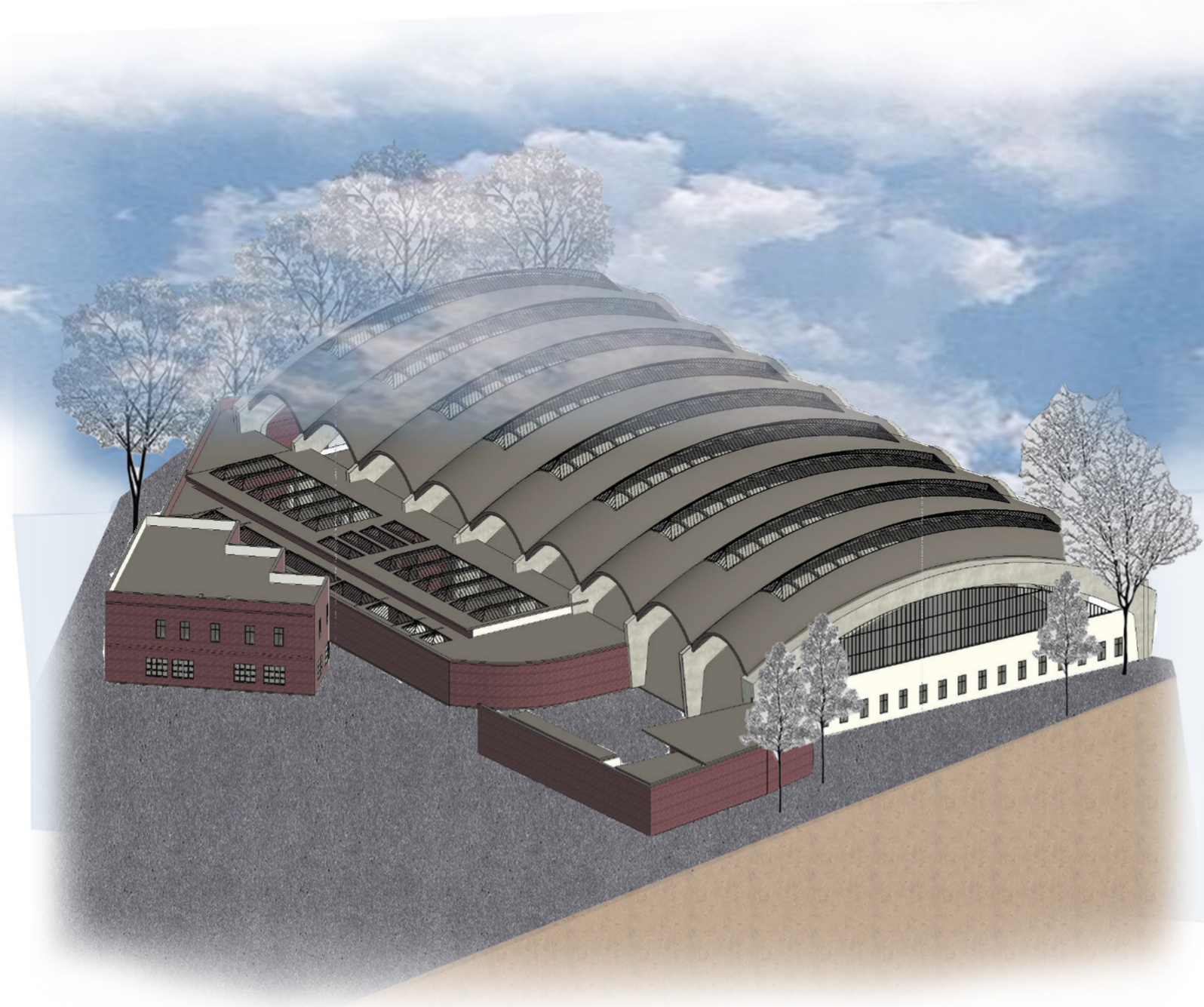


# STOCKWELL E-GARAGE

## 'A TONIC FOR STOCKWELL'

The name Stockwell originates from the old English word of 'Stoc' meaning 'Tree'. Located in Lambeth Borough, Stockwell has been home to Stockwell Bus Garage since being built in 1952. This stunning piece of brutalist architecture has continued to be revered as a great design feat, laying claim to the largest unobstructed space within a building at the time of completion, with a huge 6,814 m2 parking area.

The largest problem Stockwell currently faces is the huge pollution rates and subsequent health of its residents suffering as a result. A study found 82% of Lambeth residents said they were worried about the future of the environment. While only 28% thought they could personally make an impact on improving the wellbeing of their local area. With the proposed approach Stockwell E Garage or (sEG) will become a fully functional, solar powered, community hub with E-vehicle charging and entertainment being the main offering. This will incentivise locals to switch to E-solutions while also finding community togetherness and feelings of collective change.



### 'Easy As Driving To The Shops'

With all car companies gradually turning to Electric powered vehicles, many individuals feel disenfranchised as they are unsure how they would practically implement this into their own lives. For those living in high-rise flats or without their own parking could view it as too challenging to keep an electric vehicle. By offering a community haven where garage assistants can offer guidance and support for the elderly or those who struggle to connect the chargers, a safe environment where the cars can be left and closely monitored by the garage employees. Giving locals realistic solutions to become part of the electric powered movement. The chargers themselves will be Level 2 dispensing 19KW of power allowing the car or electric bike to be fully charged in 1-2 hours.

### 'The Future Is Electric'

The government have set out plans that nearly all new cars sold in the UK will be fully electric by 2030 and there will subsequently be a ban on petrol and diesel cars. Following the government plans for buses to go fully electric for 2030 the disused space will offer ecologically resourced charging ports for cars and bikes which will incentivise individuals who are not already using electric vehicles or are unsure of how they would practically use them a local space to safely charge their cars. Additionally, there are plans in motion aiming to restore nature, improve environmental quality and increase prosperity for Stockwell.

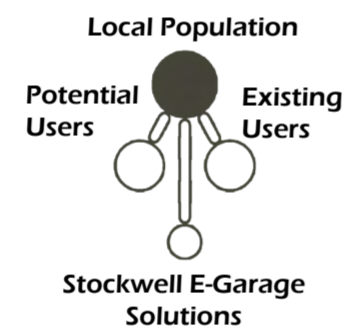
### 'Lighting Stockwell'

80% of the building will be powered by solar energy with a backup only if needed. Due to the extensive influx of light from the large domed windows covering the building, the E-trees internally and externally will offer ready made energy and make Stockwell a greener space with less petrol fumes and fossil fuel usage. In addition, the micro-climate created by heating and light will be great for growing plants inside the building on multi-level planters, also improving the overall air quality.

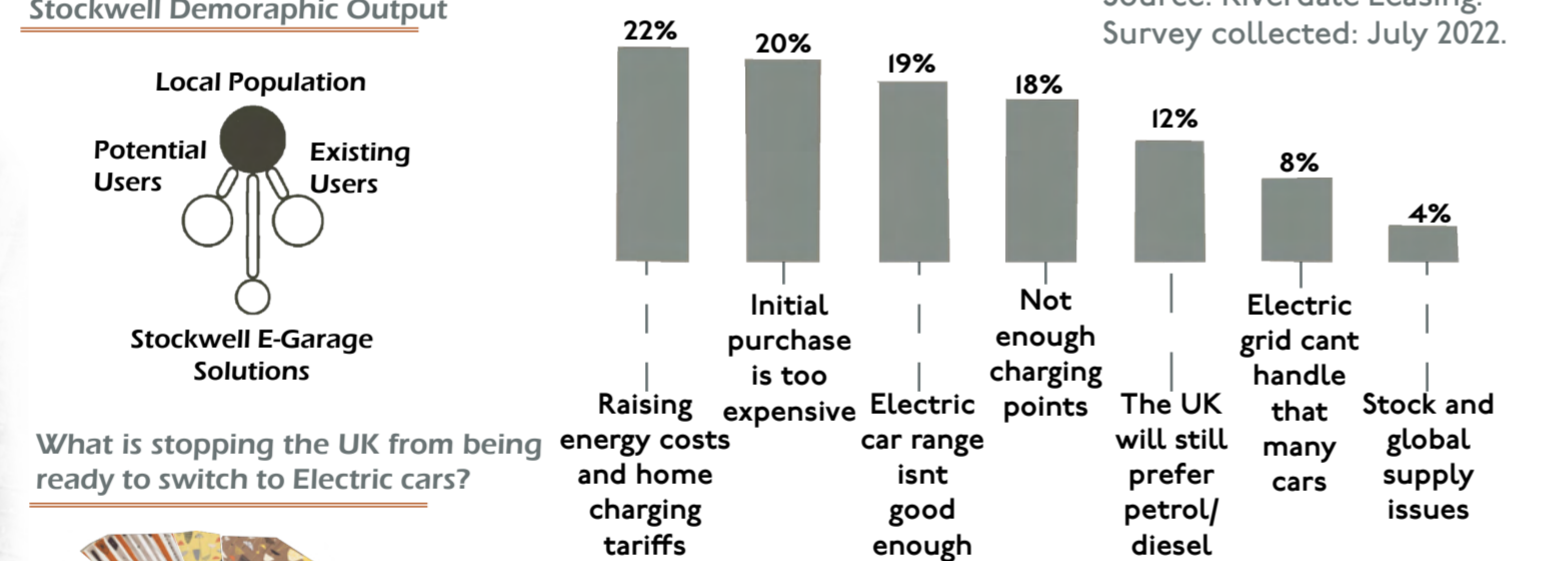
### 'Enjoy The Show'

The 1950's influences play a huge part in the Stockwell Bus Garage's ambitious design. Offering something to users that is a reference to 1950's culture will be the drive in cinema. While combining the modern and traditional, E-car. Drivers will be able to book slots to charge their cars while enjoying a weekly film rotation on the large projector adjacent to the bays. They will also be able to enjoy food and drinks from the E-cafe which can be ordered and brought directly to them while in the comfort of their cars. Making an exciting, one of a kind experience for children and adults alike.

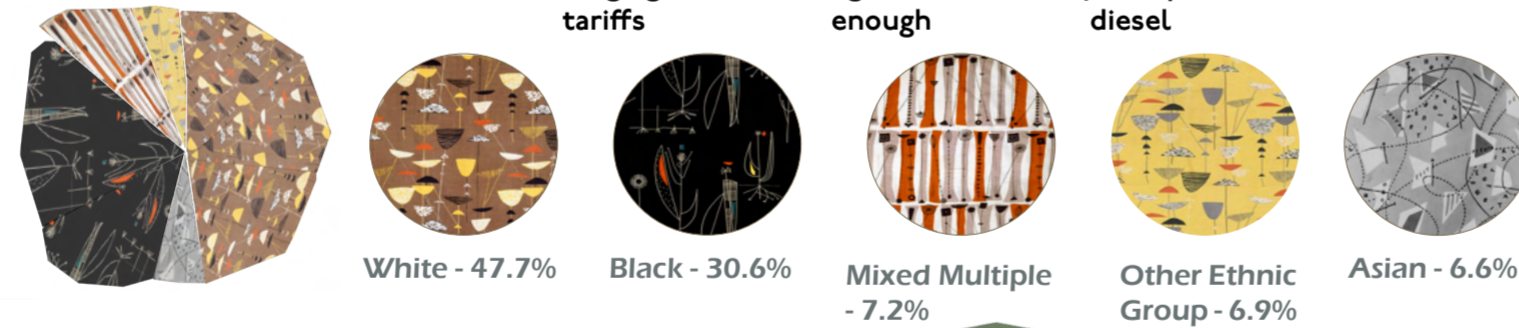
### Stockwell Demographic Output



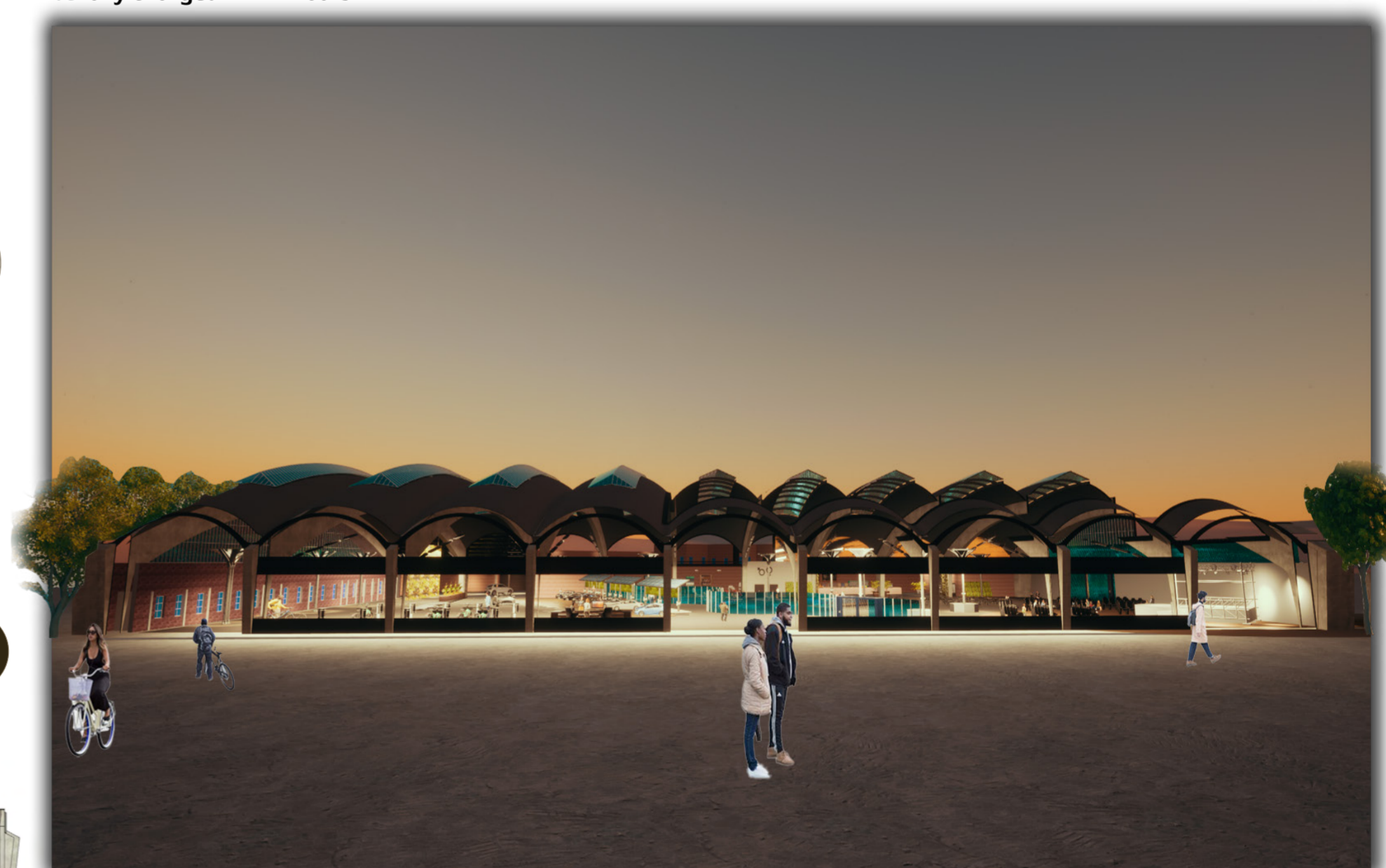
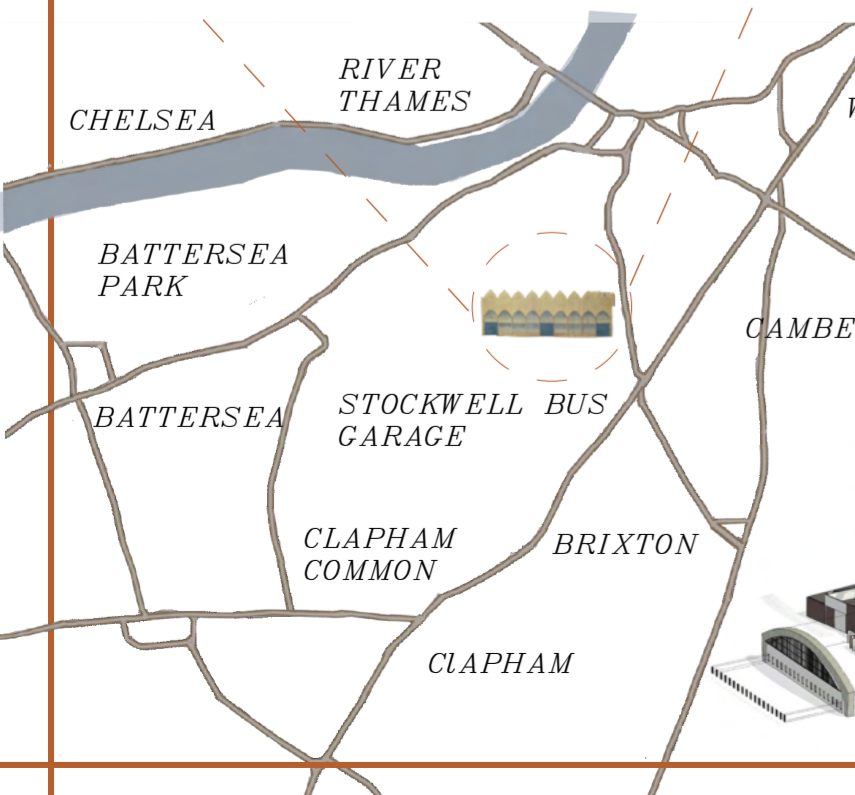
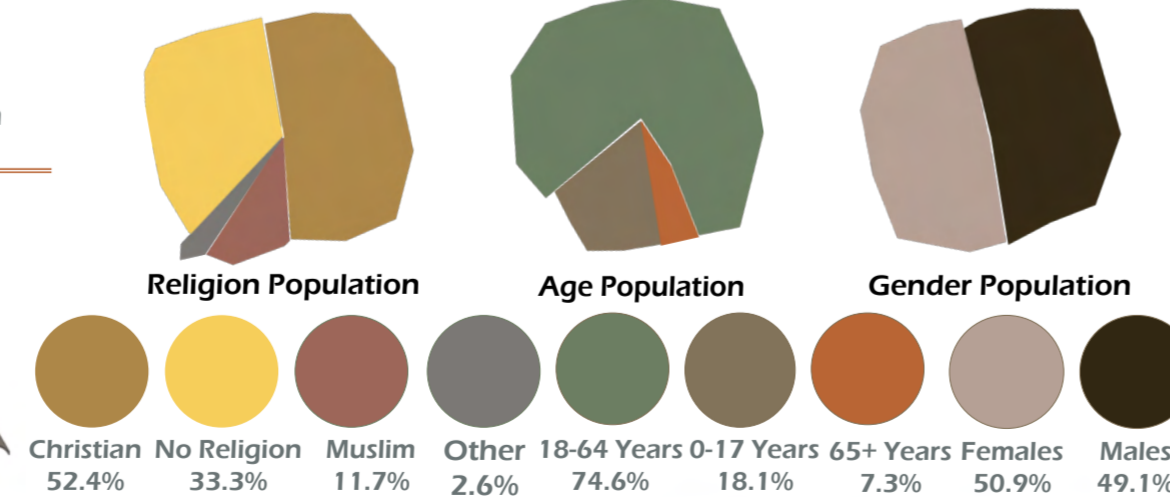
Source: Riverdale Leasing. Survey collected: July 2022.



### What is stopping the UK from being ready to switch to Electric cars?



### Ethnicity Populations in Stockwell



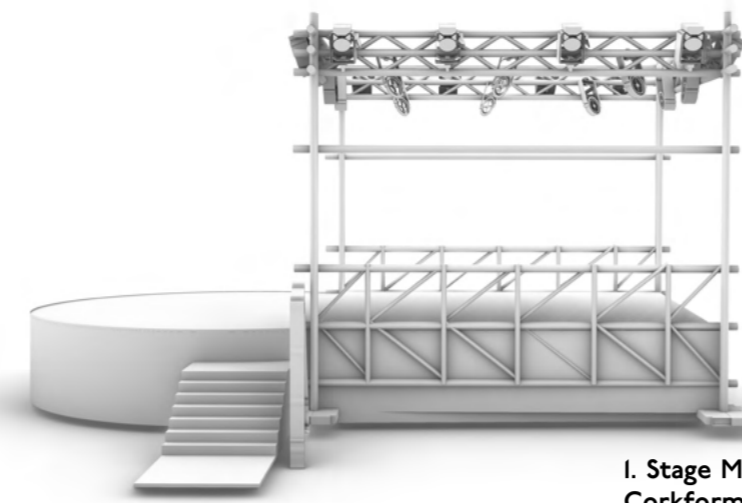


# STOCKWELL E-GARAGE

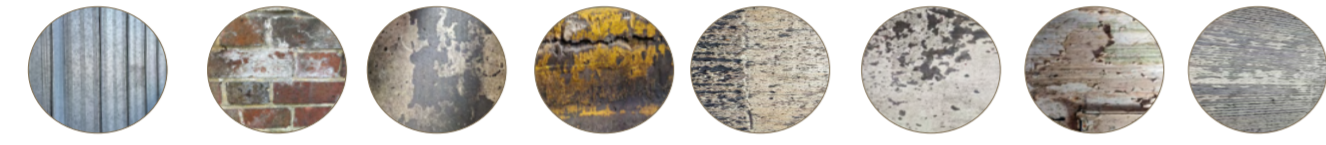
## BUILDING INSIGHT & HISTORICAL INFLUENCE



The custom built stage will be constructed using upcycled scaffolding to build the structure and support the stage lighting, which will be environmentally friendly while staying in-keeping with the bare concrete aesthetic. The stage flooring will be laid with corkform, which is low impact and can improve sound quality dampening. Adding deep colours such as the burgundy and soft furnishing from the surrounding stage seating, will also make the space feel less harsh and make the space feel like it's own entity from the rest of the building.



1. Stage Material - Quadrant - Corkform - Flux Stone  
Climate + collection, carbon balanced cork that has walking comfort and thermal insulation.
2. Paint - Farrow and Ball Estate Emulsion - Brinjal, no. 222
3. Dark Grey Concrete  
Original building concrete with maintaining treatments.
4. The Wood Veneer Hub - Oak Wood Veneer  
Sourced from North America, the wood is a light cream colour - yellowish through to a brown.

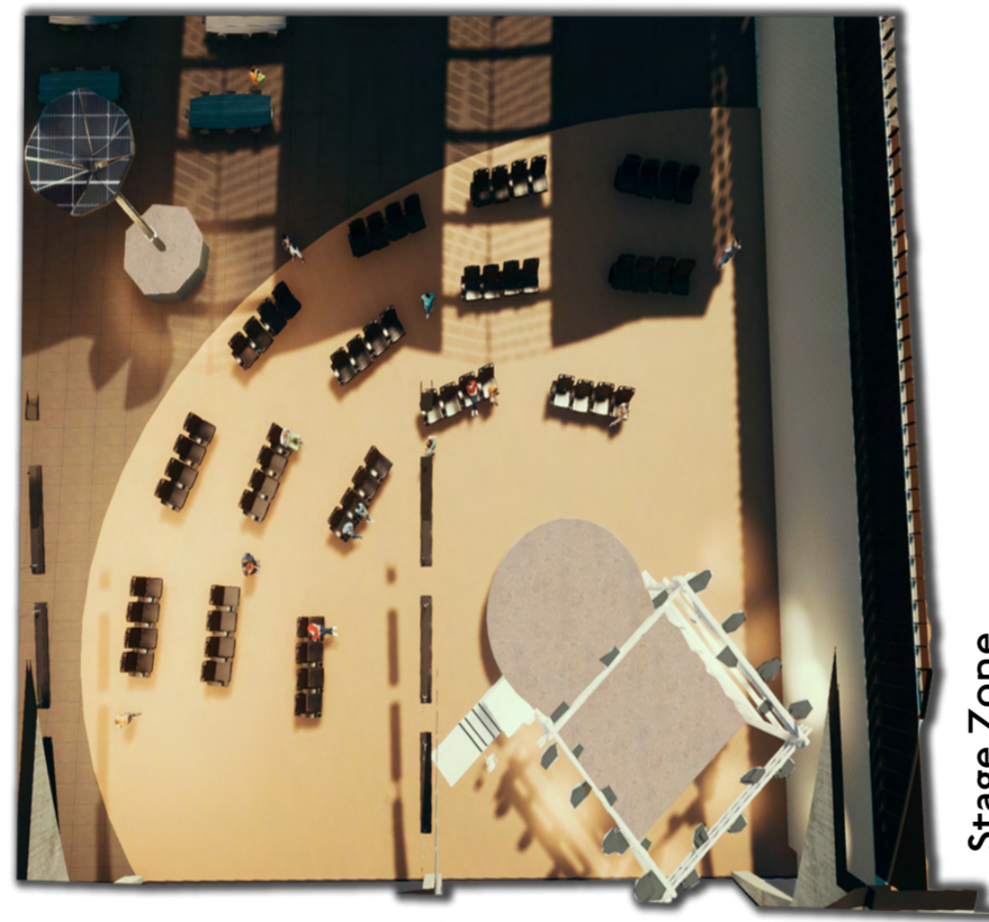


1st September 1939 - 2nd September 1945  
WWII breaks out between Great Britain and Germany. Due to Lambeth being near the river it was heavily bombed and many of the buildings were destroyed to stop key infrastructure from existing.

In the Summer of 1951, Britain hosted the 'festival of Britain' for 5 months along the Southbank of the Thames. The festival gained 8 million visitors and was to mark a new age in post-war revival and prosperity through re-building the now bombed grounds with architecturally innovative buildings and exciting events to get people hopeful for the future again.

In 1952 Stockwell Bus Garage was designed and built by Adie, Button & Partners : Engineer A.E. It was designed to house the buses that transport local londoners around as London councils were moving away from tram transport that existed before. It became the first building of it's size of unobstructed space scaling 6,814m2. This building still serves the same purpose today and is still considered an impressive feat of brutalist architecture.

In current day (2024) the government have released plans to have all buses electric by 2030 - this means the current building is not big enough to charge and store all the buses and the equipment that would be needed. This means the building could become obsolete and no longer serve the community. This offers great opportunity to once again offer revival to the locals and give a new lease of life to the space.



Stage Zone



Bespoke Textile for Stage Seating - Influenced by Lucienne Day

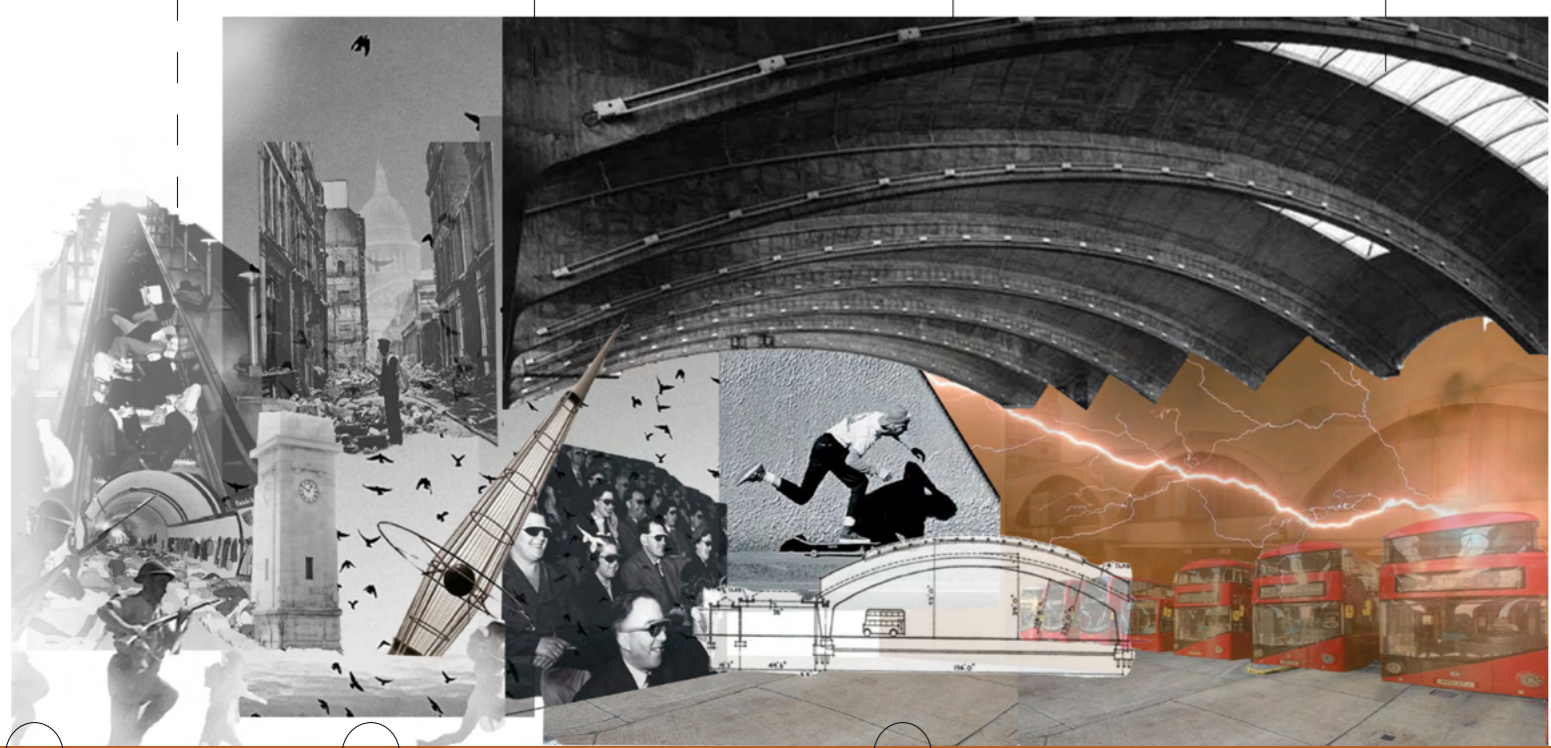


**Solar Trees**  
Symbolises the E-solutions that are available at Stockwell Garage.

**Tree Drawings**  
'Stockwell' originates from the old English term for tree which embodies the shapes and materials throughout the garage.

**Oranges**  
The fruit signifies the healthy food and clean environment on offer which promotes health and a rich environment in which fruit can grow.

Lucienne Day a budding textile designer who graduated from printed textiles department of the Royal College of Art in 1940 and became involved with the government initiative to boost the output of British designers after the War. For the interior throughout the festival they needed wallpaper and furnishing fabrics that would reflect the themes of the festival. Calyx was used as a source of inspiration (the outer parts of the flower) but the plants were stylised the point of abstraction and are linked into diagonal and vertical thin solid and dotted lines. The design embodies the springing energy of new growth, encapsulating the spirit of the festival and the social optimism.



1939                      1945                      1952





# STOCKWELL E-GARAGE

## IMPROVING HEALTH & LONELINESS

**Sunrise and sunset times for Stockwell:**  
 Average (July 2022)  
 Sunrise: 08:15  
 Sunset: 21:01  
 Average (February 2022)  
 Sunrise: 09:53



Intervention Part 1 Intervention Part 2

### SOLAR SOLUTIONS



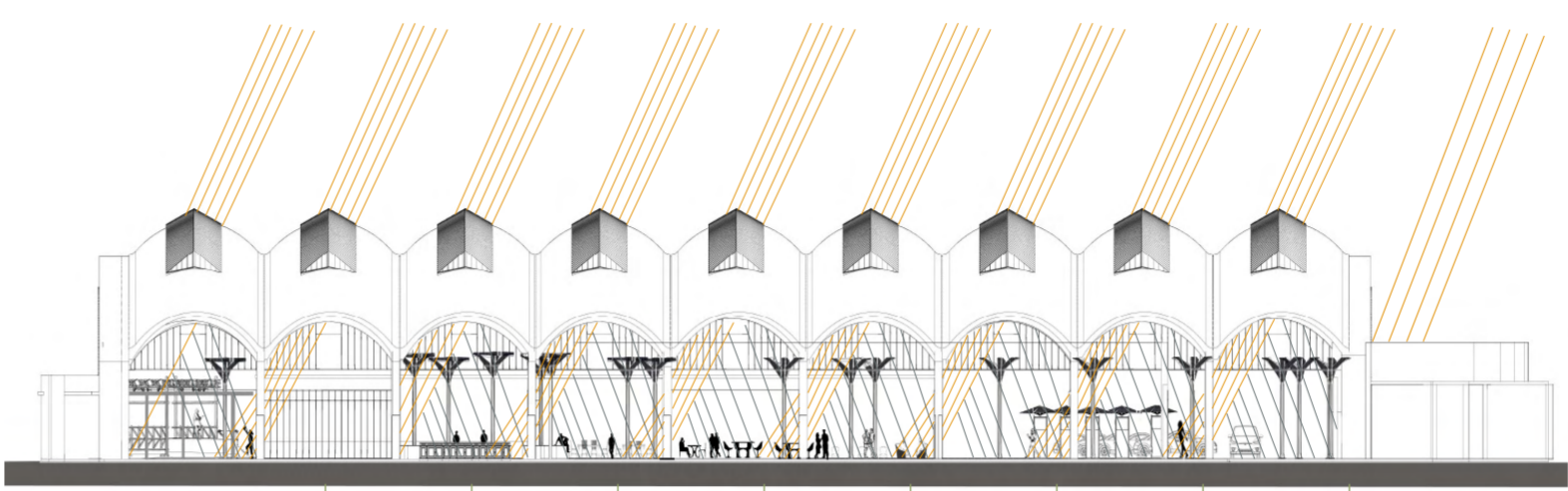
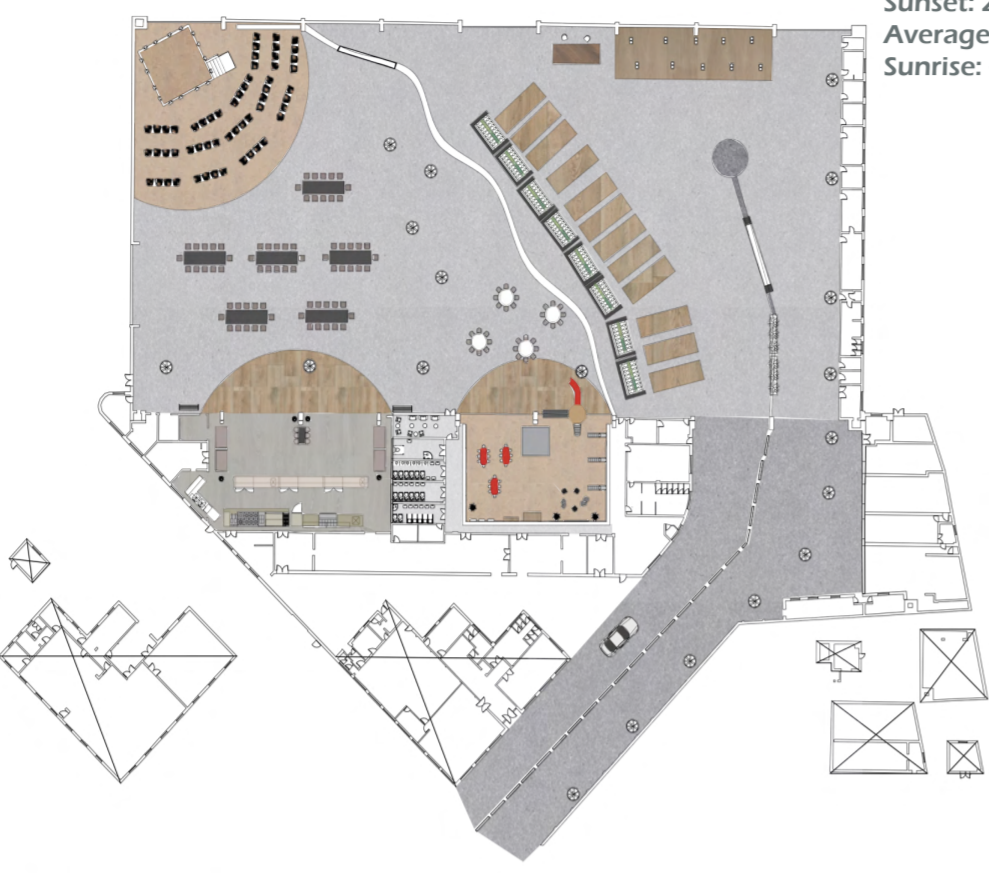
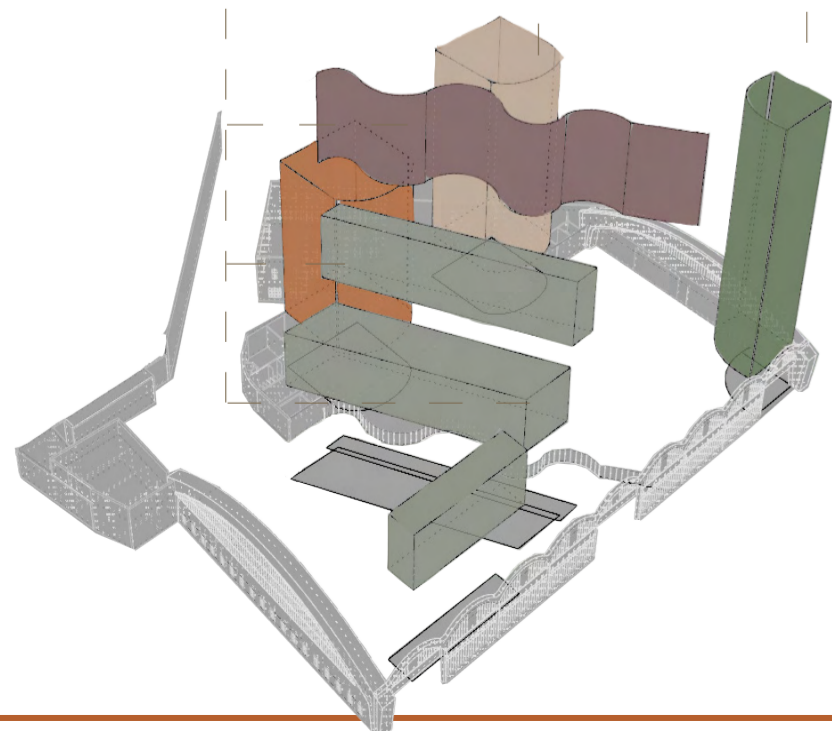
Intervention Part 3

- The central glass screen will work to divide the two main sections of the building while still allowing visual access to each space for the users to offer cohesiveness and re-assurance while leaving their e-vehicles in the charging zone. Aside, from also adding a perceived separation between the spaces, it is also important for health and safety. As if there are children present, they need to be protected from moving vehicles or the possibility of any accidents.

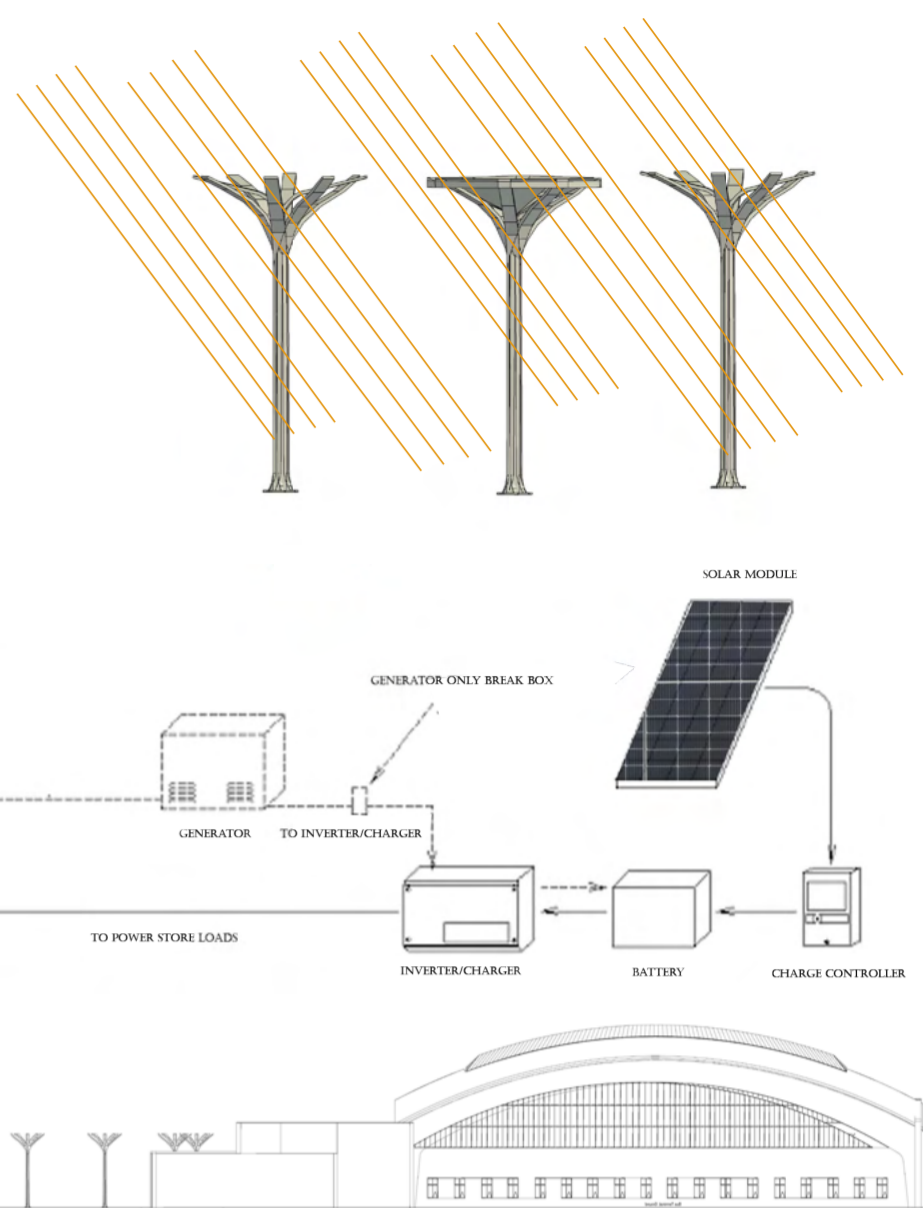
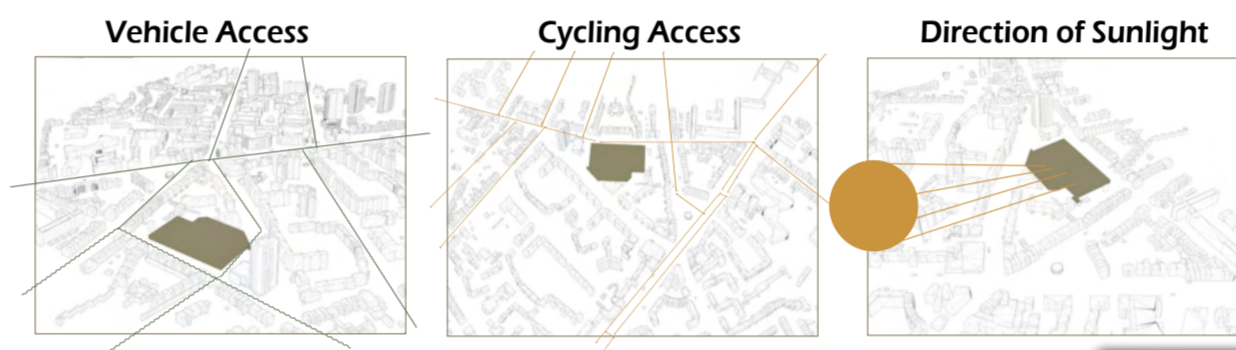
- The Cafe Zone is 46m2 in total volume of space and has easy street access from the left hand side street entrance. To access the E-Cafe you will first enter from the left side and move through from the food section to the till to allow individuals to flow through easily, without causing disruption to other users. Using signage will make customers aware which section to enter through.

- The spatial blocks represent the charging bays in the charging zone section. They are the most crucial elements within the zone as spatially they need to accommodate moving vehicles, parking and areas to allow pedestrians to safely pass through without coming into contact with oncoming vehicles. The turning circle also needs to be carefully considered to give enough room for turning through the space to avoid hitting other vehicles.

- The stage zone is 20m2 in total volume and can be accessed through the charging zone or side street access. The focal point is surrounding custom seating en-circling the corner stage. The area will be sectioned through change in flooring material to give a sense of separate zoning from the rest of the space. As the building is vast and echoey, sound absorbing materials will be used throughout this zone to absorb some of the reverberation.



South Elevation Drawing



East Elevation Drawing

- A) **The Wood Veneer Hub - Oak Wood Veneer**  
Sourced from North America, the wood is a light cream colour - yellowish through to a brown.
- B) **Quadrant - Corkform - Flux Stone**  
Climate + collection, carbon balanced cork that has walking comfort and thermal insulation.
- C) **Quadrant - Corkform - Grain Coyote**  
Climate + collection, carbon balanced cork that has walking comfort and thermal insulation.
- D) **Pretree Cork - Muratto Organic Blocks - Beehive**  
Sustainable geometric cork wall tile - works as natural acoustic and has thermal and fire resistance properties.
- E) **Quick-step - Patina - Class Oak Grey**  
80% sustainably sourced laminate wood flooring, water resistant and scratch resistant.
- F) **The Wood Veneer Hub - Acupanel - Dusty Grey**  
Acupanel slat wood panelling, real wood veneer finish with recycled acoustic felt backing.



- Version 1**  
Solar tree structure sourcing energy from sunlight entering building and emitting energy to the charging ports. LED lights underneath will also help to light the large surrounding space.
- Version 2**  
Solar tree with panels will collect light sourced energy to power mood-lighting within the communal areas and offer interesting focal points and space breakers with the LED tube lighting.
- Version 3**  
Solar tree which stores energy from the incoming sunlight to offer charging ports for individuals to charge their devices renewably. The surrounding seating structure and comfy furnishings will make it feel casual and enticing to use.

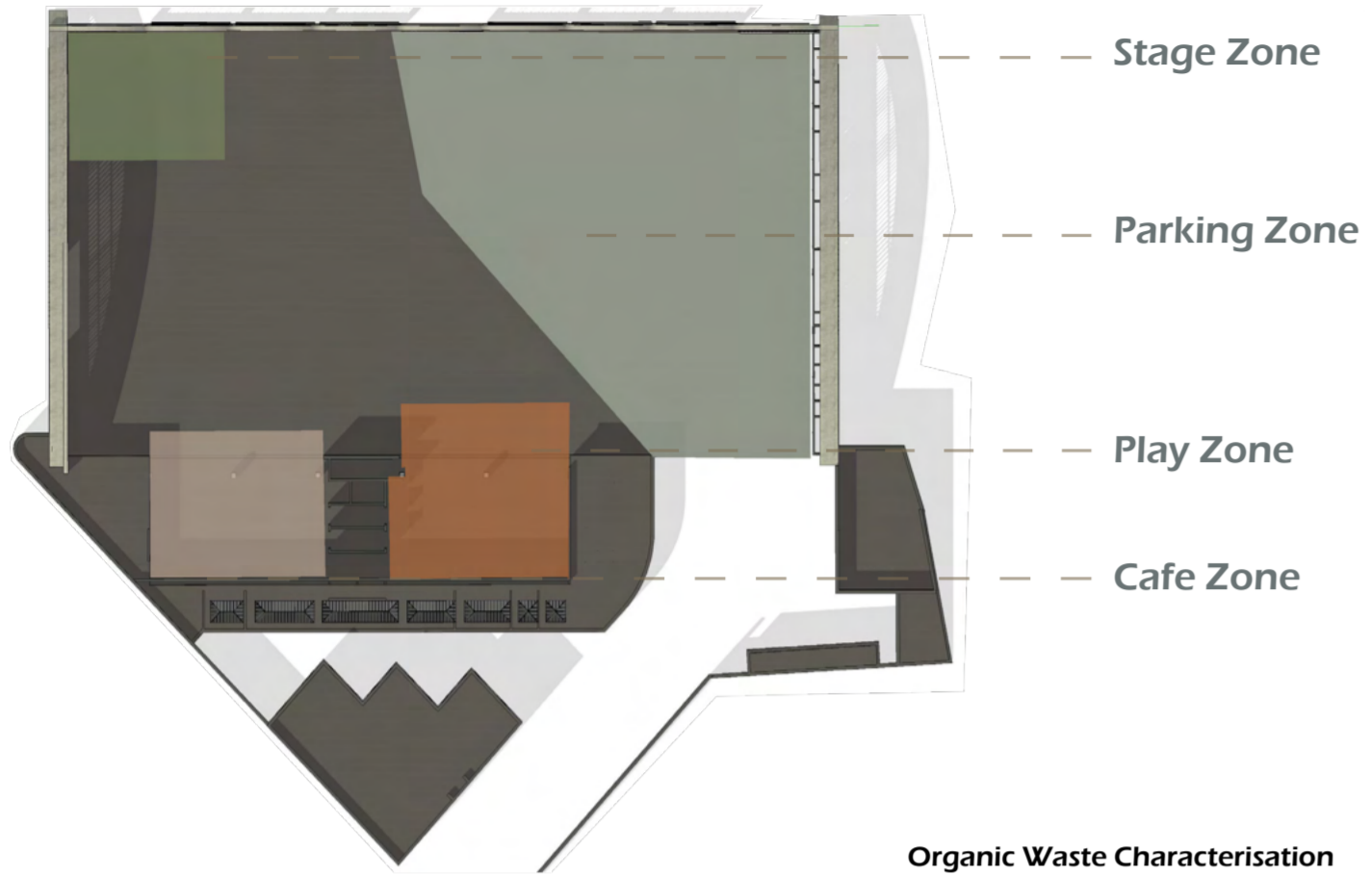


# STOCKWELL E-GARAGE

## IMPROVING HEALTH & LONELINESS

Stockwell E-Garage  
Cafe - Circular  
Food Growth and  
Reproduction Cycle.

46m<sup>2</sup>



Cafe  
Precedent -  
Mova Beer,  
Ukraine.



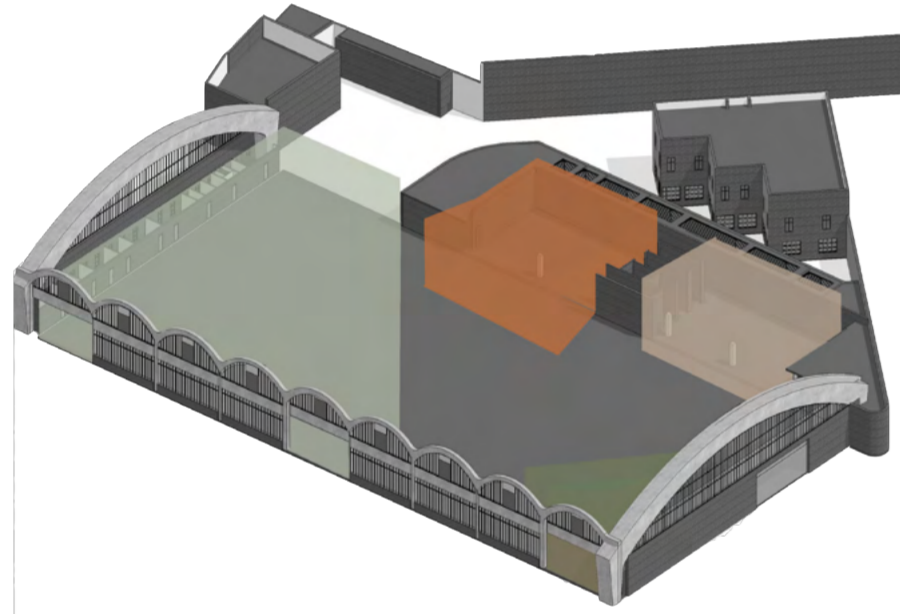
Vegetables  
and herbs  
harvested  
from  
planters for  
Cafe.



Cafe Zone



The Stockwell E-Cafe will prioritise healthy, nourishing food, coffee and smoothies which have lots of ingredients grown and sourced locally or herbs from the supply within the planters of the garage. As this is a space for locals to enjoy while they wait for the vehicles to charge or simply catch up with friends and socialise, offering a neutral palette of colours and finishes will create a calming environment which is exactly what people want if they are having a break in their day.



**Organic Waste Characterisation**  
Consumption based goods produced from eco-conscious organic-waste life cycles.

- Plants reproducible from organic waste
- Foods that can be produced from organic waste seeds
- Foods that can be produced from organic waste seedlings

**Aromatic Plants**

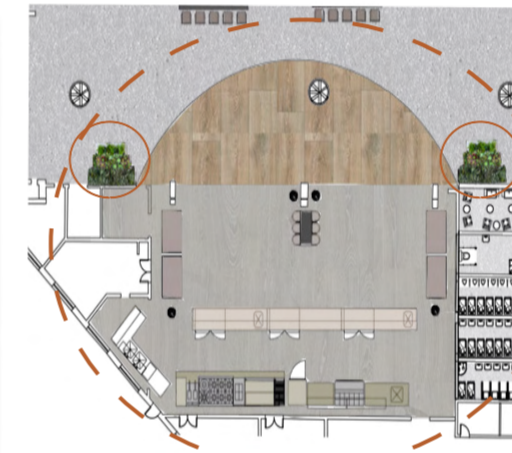
- Mint
- Oregano
- Rosemary
- Basil
- Parsley
- Dill
- Vegetable Greens

- Lettuce
- Arugula
- Cress
- Perslane
- Lamb's Ear
- Fresh Onion
- Fresh Garlic
- Chard

**Root Nutrients**

- Carrot
- Radish
- Celery
- Potatoes
- Ginger
- Fennel

- Radish - Cabbage
- Cabbage
- Broccoli
- Cauliflower
- Brussels Sprouts



46m<sup>2</sup>



Play Zone



The enclosed area that is allocated for young children and teens to enjoy has been designed to optimally keep the children safe while still allowing the adults to socialise and observe from a close distance. Soft materials like cork flooring will protect anyone from serious harm if using the play apparatus.

The choice of including the flat screen, gaming console and bean bags means that young people can also enjoy the space so they do not simply have to feel excluded or 'stuck' with the adults.

Workshops for the children such as painting and making classes will also be open to any children who would like to be involved and for some low-income families, this is a great way to offer their children new experiences without having to spend money.





# STOCKWELL E-GARAGE

## IMPROVING HEALTH & TOGETHERNESS



### Screen Time Offerings:

Precedent: 'Drive In Movie Club, LA'. Stockwell E-Garage will have weekly aired films scheduled for all ages to enjoy.

### Charging & Sharing With Loved Ones:

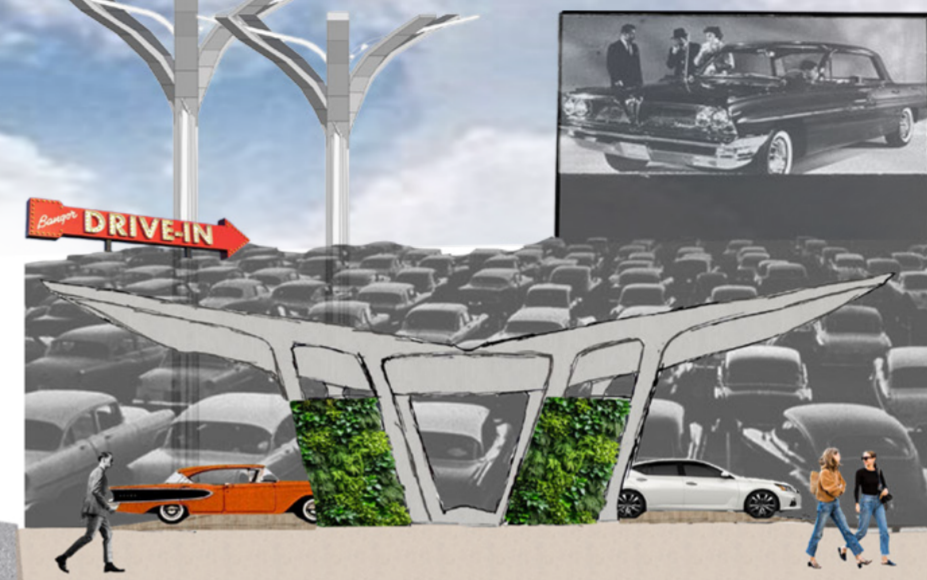
Enjoying time to watch a movie from the comfort of your own car with friends and family, making it an affordable choice for the locals.

### Bring your own snacks or enjoy car service.

Stockwell has fresh food on offer from the E-cafe which can be ordered through the site app or from one of the Drive-In team and brought straight to the vehicle.

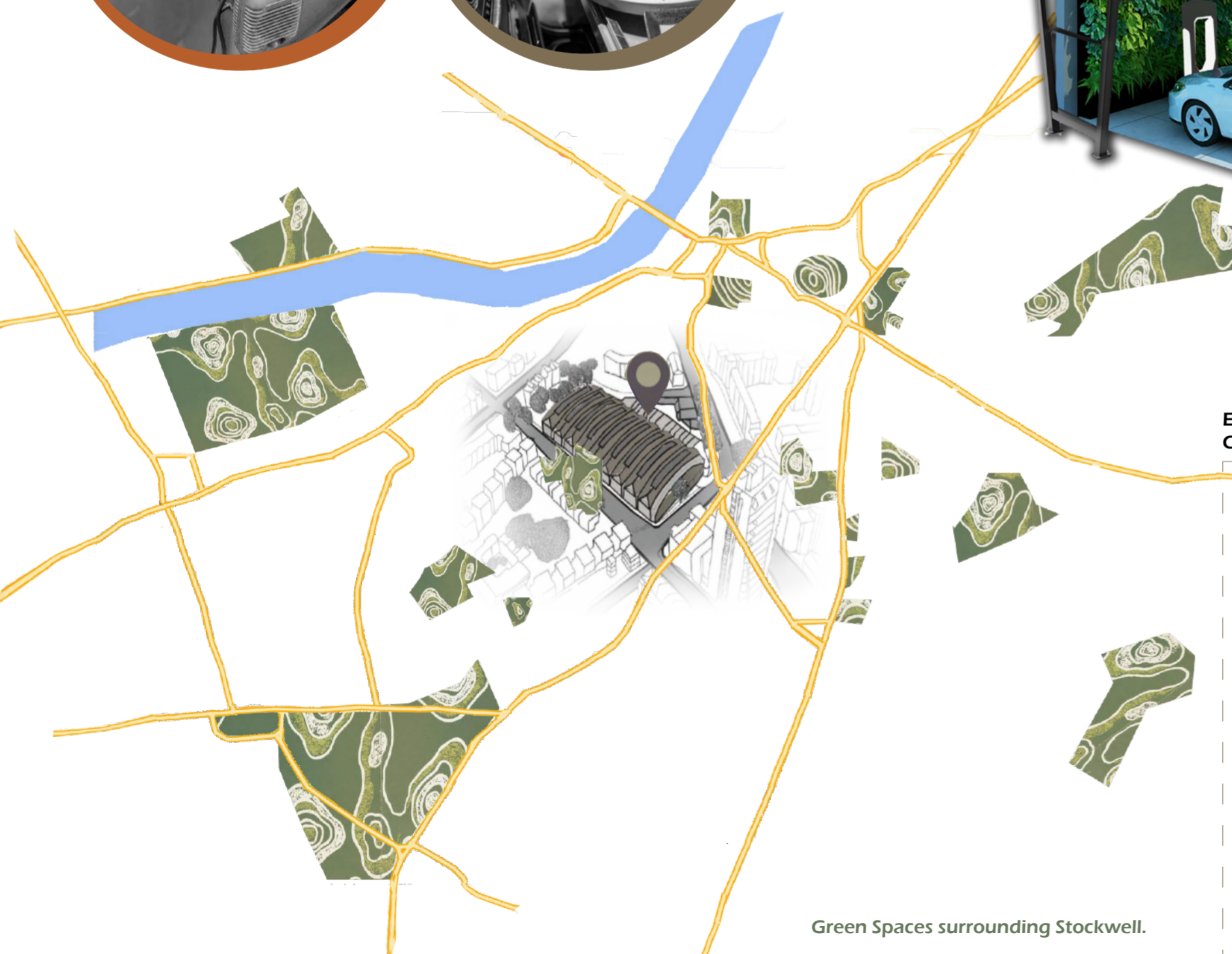
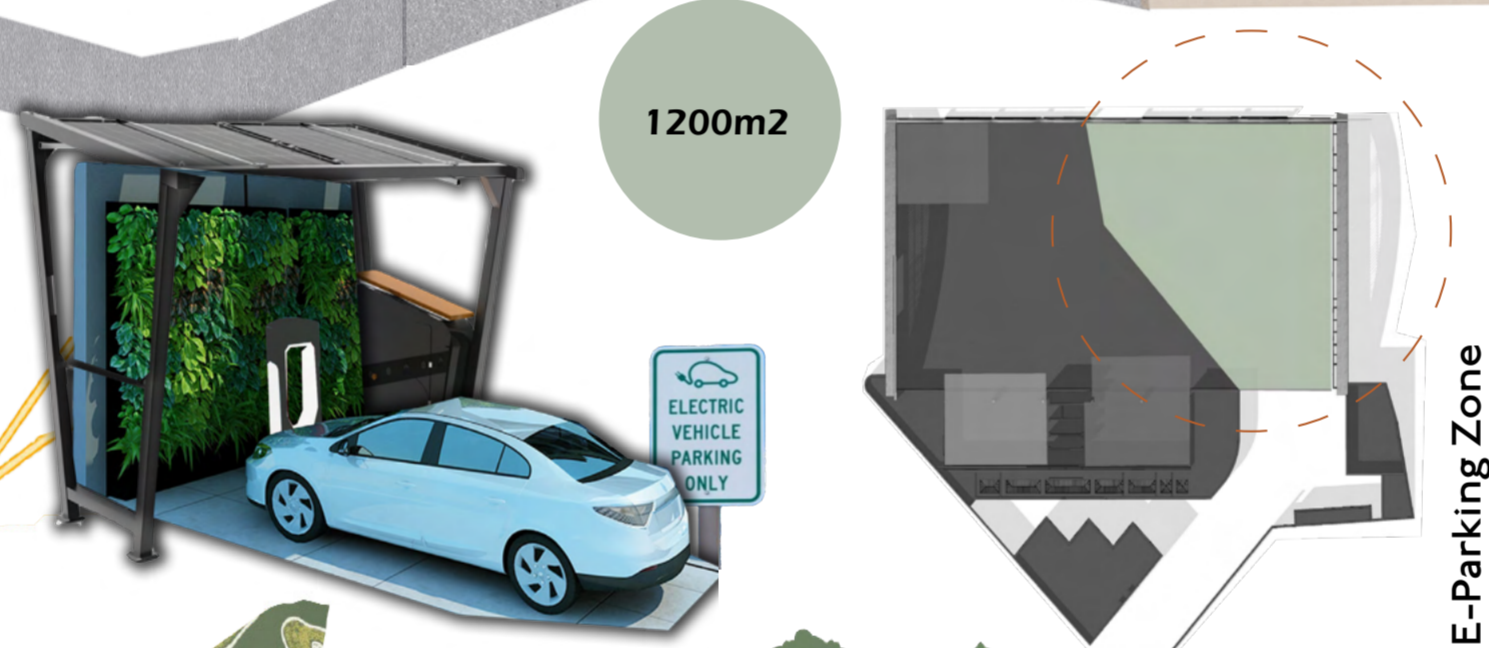
1950's

Drive-ins started to take off in the 50s and offered families an opportunity to be entertained from the comfort of their vehicles. This popularity also saw the introduction of car service beverages of soft drinks, snacks and meals. It is also a great way for individuals from all over town to convene in one location and enjoy old and new movies together.



2024+

In 2024 (a post-pandemic landscape) saw a huge rise in drive through popularity, throughout the UK. Stockwell E-Garage can offer entertainment to locals from the comfort of their vehicles with the large screen to enjoy while they charge their E-cars. There will be a reception desk where people can check in or pre-book different time slots. The garage will also offer an app which allows visitors to reserve spaces, order food and drinks. Or keep up to date with all the local events occurring at Stockwell E-Garage with ease. This interactive, innovative experience will re-energise the locals to get involved in a combined effort of making the area cleaner and with more exciting offerings locally.



Green Spaces surrounding Stockwell.

### Existing E-car / Hybrid Car Drivers.

25-34 year olds currently drive the most electric vehicles in the UK at 46.9% of car users owning one and are the most likely to rent one. Those living in the area of Stockwell who already drive E-cars will be able to use the garage to charge their cars if en route through the area or wanting to use the facilities within the building, which could include:  
Meeting local friends, great food/coffee, taking their children to play and socialise or see a performance.

### Prospective E-Car drivers.

E-car owners are growing rapidly year on year, but the statistics lessen in higher age groups as 22.2% own an E-car between 45-54 years but only 9% in the 65+ age group. Many locals who would not have exposure to E-solutions will have an opportunity to use the Stockwell garage facilities and offer somewhere to socialise, which can greatly strengthen community inclusivity and morale. It also will improve Stockwell's pollution problem by lessening transport fumes and giving individuals an incentive to improve their area for future generations.

