

## **AGBIS**

**Annual Conference 2024** 

## Matching Strategic Planning to Sustainability in a Heritage-rich Environment

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## MEB Design Ltd Chartered Architects

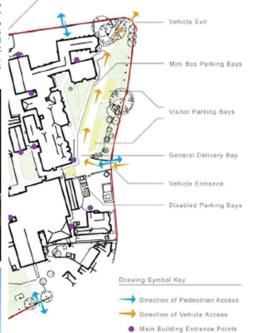
#### SPACE AUDITS, STRATEGIC AND MASTER PLANS

MEB Design is well experienced in strategic planning, these are some of the elements involved.

#### Space Audits

This is a factual exercise to schedule what exists by way of grounds, buildings and all the spaces within them, their uses, levels of occupancy, capacity and quality. This will help establish what the organisation has, whether the spaces best serve the stated needs, what is over or underused, and what is missing. Areas in plan are colour coded to make it clear what each space is used for. And, where applicable, the areas are compared with the statutory requirements where they exist.





Main Pupil Access



#### Strategic Plans

The aim of a strategic plan is to establish what any organisation needs by way of buildings and grounds to fulfil its mission efficiently into the future, what options there are, and what the costs are likely to be, in order to make best use of what exists, develop what exists, and / or demolish what is no longer required. It develops from the space audit and identifies as far as possible what will be needed in the most preferred way for the foreseeable future.





## MEB Design Ltd

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#### Master Plans

A master plan takes the process to a greater level of detail, and formalises the strategic plan ideally once the local authority planning department has been consulted, and after other risks such as ecology and trees have been evaluated besides the planning risk. Other consultants will be needed and matters such as timescales will be addressed as well as any other factors that are identified to directly affect feasibility.



SPACE AUDITS, STRATEGIC

AND MASTER PLANS



#### The Benefits of Careful Planning

Well planned buildings, grounds and facilities make everyone's life easier; and the achievement of the aims and mission of the organisation are more likely to be realised. 'Quick fix' solutions to problems are avoided - which all too often have to be abandoned before they have justified their expense, or are put in locations that prejudice future development. A degree of overlapping between these three exercises is only to be expected.

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#### Strengths

- Large site
- · Natural hierarchy of functions
- · Good range of existing facilities
- · Good quality existing buildings
- · School heritage and identity
- · Exceptional landscape setting
- · Available land for development

#### Weaknesses

- Distance to sports fields
- · Ageing sports facilities
- · No dedicated dance facility
- · Disjointed maintenance and storage
- · Traffic flow and parking issues
- · Existing busy road dissects site
- · Disjointed science department
- · Lack of on site staff accommodation
- · Poor learning support facility

#### Opportunities

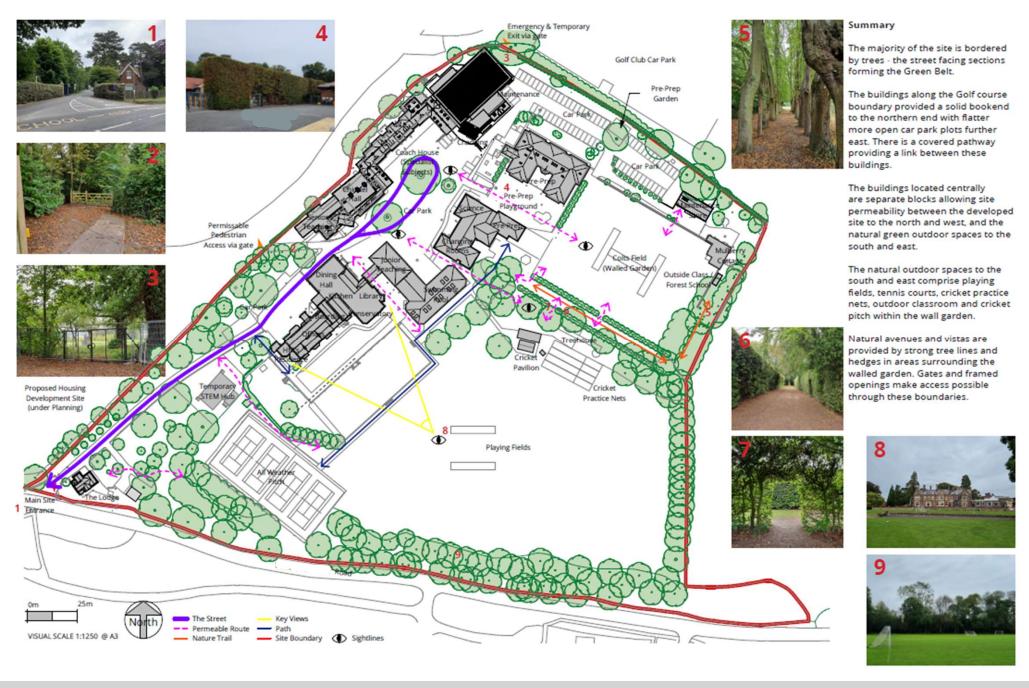
- · Centralised sports facilities
- · Sports centre of excellence
- · Dance facilities public access
- · More flexible dining and function area
- · Re-purposing of Lowman Fields
- · Land disposal for housing
- · Improved pupil social spaces
- · Dedicated EAL / LS department
- · Improved reception / welcome
- · Unified science department

#### **Threats**

- Tidcombe Lane Fen SSSI
- Historic henge
- River Lowman flood plain
- Conservation area
- Tree constraints
- New road
- New housing
- · 39 Tidcombe Lane Grade II listed.









# 1 Approved Planning for Housing

Area: House 1 143m2 and House 2 130m2

New housing scheme of 2x 3-Bed houses already has Planning Permission in perpetuity. Could be developed as Staff housing or redesigned / enlarged as 1x Head's House – TBC. Refer to Planning Drawings in Appendix C for more detail.

#### PRIORITY LEVEL:





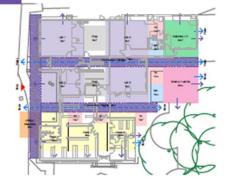
Area: 304m² Extension; 626m² Refurbishment; 355m² Playground Upgrade

Pre-Prep to be extended to add 3x Classrooms currently on other side of Playground. Internal alterations to include improved / more WCs, Storage and Staff facilities. Main Entrance to be improved and connected to new external walkway / covered link. Improved access to outdoor space to be provided, new larger doors / windows. External Playground areas to be upgraded.

#### PRIORITY LEVEL:



4 New STEAM Hub



Area: Option 1 843.4m2 and Option 2 1046m2

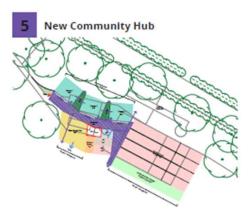
New STEAM Hub building assumed new building on site of demolished Science / Changing building.

Exemplar modern teaching facility including Science, IT / Robotics and display areas / atrium / concourse.

Refer to Pages 13-15 for further detailed information.

#### PRIORITY LEVEL:





Area: New Build 976m2 and Covered Nets 988m2

New Pavilion and Changing building to replace existing Pavilion

Changing Rooms to be relocated and enlarged, with new Club Room / Hospitality spaces, Kitchen and Stores etc.

Refer to Pages 16-17 for further detailed information.

Temporary access or cranage will be required to site

#### PRIORITY LEVEL:



Area: 293m<sup>2</sup>

7 New Junior Classrooms over Improved Changing Rooms and new Entrance



Existing Swimming Pool Entrance and Changing Rooms to be refurbished and improved.

Entrance / circulation to be connected into new walkway / covered link.

New Junior Classroom to be created in existing roof space over.

#### PRIORITY LEVEL:





Area: 184m2 Extension; 84m2 Refurbishment

Extension to existing Dining Hall to provide more seating.

Entrance and queuing / servery areas also to be improved / refurbished.

Minor alterations to existing Kitchen to make more prep space.

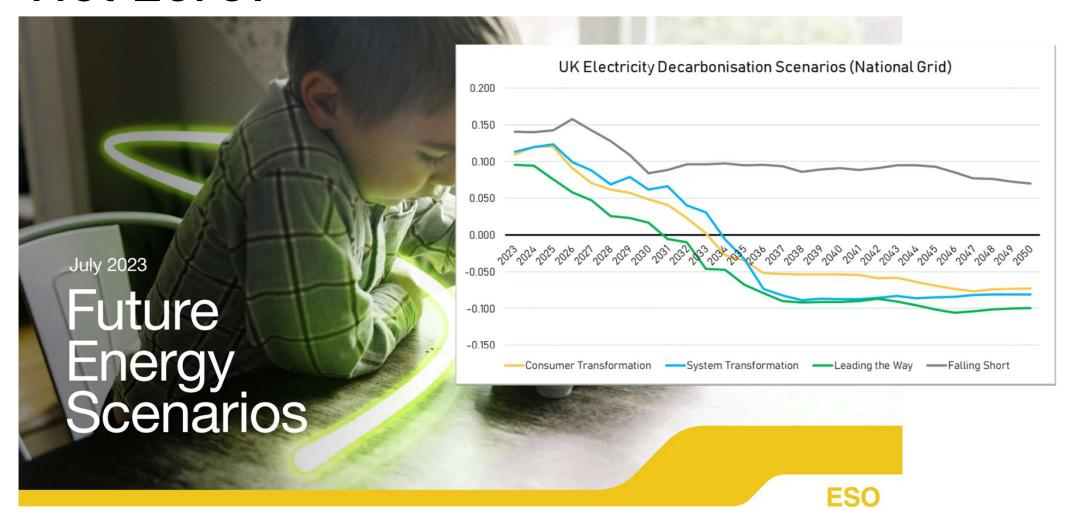
#### PRIORITY LEVEL:







## Net Zero?



## Principles Approach



- Heat Pumps (air, ground, water)
- Other gas uses (e.g., kitchens)
- Electric heating

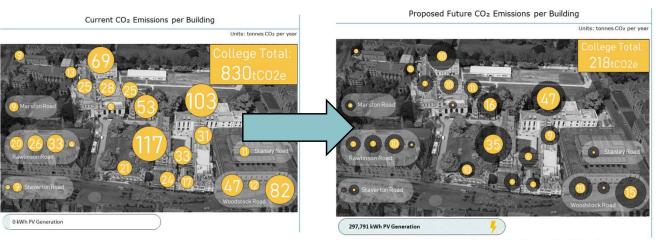


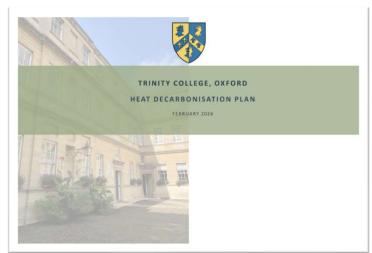
- 'Fabric first'
- Building services
- Appliances & equipment
- Management & behaviour
- Energy storage

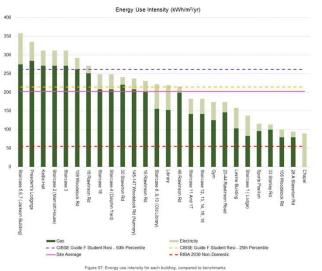
Generate Renewable Energy

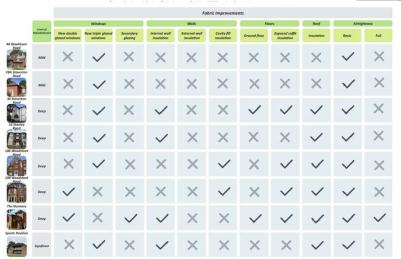
- Solar PV
- Others solar hot water, wind, microhydro?

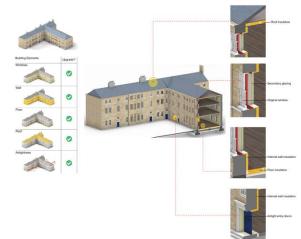
## **Decarbonisation Plans**

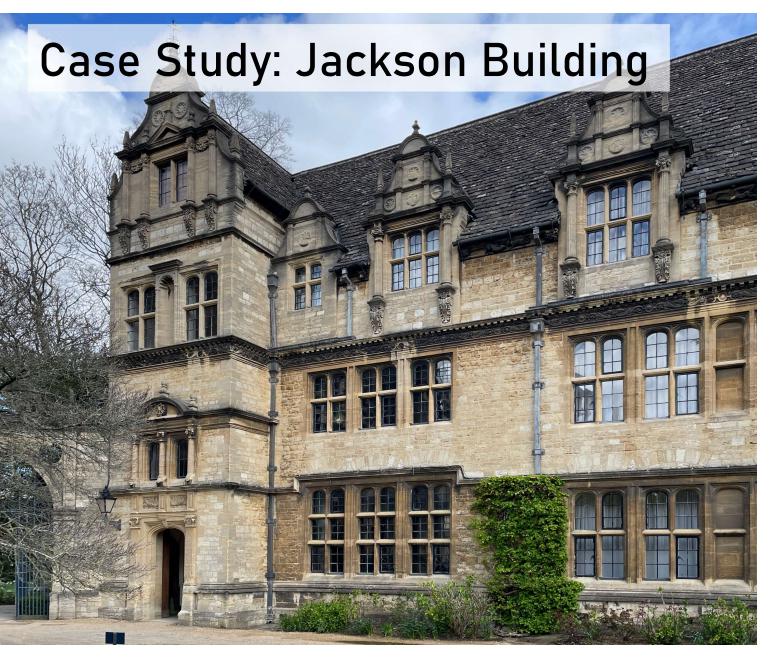












**Trinity College** 

## 'Light fabric retrofit':

- Secondary glazing
- Loft insulation
- Door seals (air tightness)

**Heat source:**Ground source heat pumps



Brasenose College

### 'Deep fabric retrofit':

- Woodfibre wall insulation
- Secondary vacuum glazing
- Roof insulation
- Airtightness measures throughout
- Heat recovery ventilation

#### Heat source:

Ground source heat pumps

