Planning Sub Committee 11 December 2023

ADDENDUM REPORT FOR ITEMS

UPDATE FOR CONSIDERATION AT PLANNING SUB-COMMITTEE Item No.

Reference No: HGY/2023/2137	Ward: Northumberland Park

Address: Tottenham Hotspur Stadium, 748 High Road, Tottenham, London N17 0AL

Proposal: Minor Material Amendments to height, design, maximum floorspace and associated works to Plot 3 (Hotel / Residential development) of the hybrid planning permission HGY/2015/3000 (following previously approved amendments including HGY/2017/1183 to allow part residential (C3) use on Plot 3) for demolition and comprehensive redevelopment of the Northumberland Park Development Project through variation of Conditions A4 (Consented Drawings and Documents); A6 (Conformity with Environmental Statement) and Condition A7 (Maximum Quantity/Density) and D1 (Plot 3 specific drawings) under Section 73 of the Town and Country Planning Act (EIA development)

Applicant: THFC

Ownership: Private

The following items in **green** will show amendments/corrections/changes and red deletions.

1. Reference to Plans and Document: shall read: See Appendix 9 12 to this report.

- - - -

2. Surrounding Sites

An additional figure labelled as 7a was excluded in error and will be re-provided as it is referenced in para 3.21. This figure shows the relative heights of buildings within HRW and shall be inserted below para 3.21 and above Figure 7 (which will become 7b)



- - - -

3. Energy, Climate Change and Sustainability

Additional Energy Strategy review has been provided by LBH Carbon Management Team following publication of the Committee report.

Energy Strategy

Para 6.10.14 shall be amended to state:

6.10.14 Additional clarifications on the improvements of the domestic performance and the thermal bridging have been requested by GLA and LBH officers. Specific concerns have been raised regarding the hotels EUI over GLA benchmark and how to get these down, as well as elaboration on how better than expected space heating demand for residential elements will be achieved. and Further updates are expected either prior to the application being heard at committee or through conditions or as an obligation within the S106.

Be Clean

LBH Carbon Management Officers have requested that additional detail be added to the consideration of the DEN connection and that this section be extended to state these requirements. Para 6.10.18 and 6.10.19 shall be amended to the following:

6.10.18 A drawing has been provided demonstrating space for heat exchangers in the energy centre/centres, and a safe-guarded pipe route to the site boundary. **The**

applicant will need to demonstrate that they will provide the following details prior to the commencement of construction including:

- a) Buried pipe (dry and filled with nitrogen) to our specification from the GF plant room to a manhole at the boundary of their site and evidence of any obstructions in highway adjacent to connection point;
- b) A good quality network within the building 60/40 F&R, <50W/dwelling losses from the network ideally to an agreed standard in the S106;
- c) A clear plan for QA of the network post-design approval through to operation, based on CP1;
- d) A clear commercial strategy identifying who will sell energy to residents and how prices/quality of service will be set.

6.10.19 If the DEN connection is unavailable or is otherwise not technically deliverable or financially viable then there is potential for roof mounted and mid-level ASHP, basement located Water-Source Heat Pumps, DHW thermal stores and a provision and strategy for future connection. These measures are considered to be acceptable. The space for ASHPs should be safeguarded until it is confirmed the DEN is definitively not going to be available for connection.

Be Lean

LBH Carbon Management Officers have requested that the metering strategy be improved and secured in the planning obligations. These will be added as new para 6.10.23 and state:

6.10.23 The proposed metering strategy of the building by the report includes the following:

- Additional meter on the main resident's supply (or residents meter readings need to be collected and collated individually)
- Renewables are sub-metered for generation
- Special uses (such as electric vehicle charging) is sub-metered
- Individual bi-directional heat meters per dwelling
- Provide a visual energy display device to raise awareness and make users responsible for their energy consumption
- Meter and report landlord areas separately
- Commercial areas metered and reported separately
- Ensure OFGEM compliant meters
- Upload data to publicly accessible platform for five years.

This data shall be presented in the GLA webform format for this development: (<u>https://www.london.gov.uk/what-we-</u> <u>do/planning/implementing-london-plan/london-plan-guidance/be-seen-</u> energy-monitoring-guidance/be-seen-planning-stage-webform)

Environmental sustainability

An additional comment has been received from LBH Carbon Management Officers requiring further detailed Circular Economy details. As such an additional para shall be added as: 6.10.35 <u>Circular Economy</u>: The report sets out the Key Commitments (Table 3-1), Bill of materials (Table 3-2) and Recycling and waste reporting form (Table 3-3). This is a fairly high level of information, and the applicant expects this to become more detailed as the detailed design progresses following permission. As such a condition is recommended to this affect.

- - - -

4. Amended Conditions

Following the updated information for and for reasons of correction and clarity the following updates to conditions are recommended, with additional text in green and omissions as red:

Site Wide Conditions: D5, E6, F6, G6 'Construction Hours'

These are proposed to be amended to reflect a modest relation of working hours. It should be noted that these hours are less lenient than those in the extant permission which would have allowed

Construction work which will be audible at the site boundary will be restricted to the following hours: 8.00 - 6.00pm Monday to Friday, 8.00am - 1.00pm Saturday and not at all on Sundays and Bank Holidays **unless with prior written agreement.**

Reason: In order to ensure that the proposal does not prejudice the enjoyment of neighbouring occupiers of their properties consistent with Policy DM21 of the Haringey Development Management Plan DPD July 2017.

Plot 3 Conditions:

Energy strategy

D28: The development hereby approved shall be constructed in accordance with the Sustainability and Energy Strategy Addendum (Revision P04), prepared by Buro Happold delivering a minimum site-wide 47% improvement on carbon emissions over 2013–21 Building Regulations Part L, with SAP201210 emission factors, high fabric efficiencies, connection to the Decentralised Energy Network, and solar photovoltaic (PV) energy generation.

The final agreed energy strategy shall be installed and brought into operation prior to the first occupation of the development. The development shall be carried out strictly in accordance with the details so approved and shall be operated and maintained as such thereafter for the lifetime of the development.

(a) Prior to the commencement of works above ground floor slab level for the Printworks Building, an updated Energy Strategy shall be submitted to the Local Planning Authority for its written approval. This shall include:

i. Confirmation of the overall % reduction in line with the Energy Hierarchy;

ii. Confirmation of the necessary fabric efficiencies to achieve a minimum 10% reduction (residential) and minimum 19% (non-residential) in SAP201210 carbon factors, including details to reduce thermal bridging;

iii. Specification and efficiency of the proposed Mechanical Ventilation and Heat Recovery (MVHR), with plans showing the rigid or semi-rigid MVHR ducting;

iv. Maximum possible solar energy to be generated on the roof, with details including: a roof plan; the number, angle, orientation, type, and efficiency level of the PVs; how overheating of the panels will be minimised; their peak output (kWp) and annual generation (kWh/year), and confirmation how the generated electricity will be used on site to avoid the exportation to the grid;

v. Detailed design of the heat network within the blocks and how this complies with CIBSE CoP1 and the LBH Generic Specification. This should include detailed calculation of distribution losses (based on pipe routes and lengths, pipe sizes, taking account of F&R temperatures and diversification and insulation) to calculate total heat loss from the system expressed in W/dwelling and should demonstrate losses have been minimised;

v. Further detail for the alternative low-carbon heating solution, including clarification if the fan coil units would be in addition to the ASHP for the hotel, plant room layout and space requirements for roof, mid-level, and thermal stores, calculations for the alternative low-carbon heating scenario that shows the carbon reduction following the Energy Hierarchy, and state what carbon factor has been used.

vi. A strategy for the supply of heat to buildings occupied before the site-wide energy centre is available;

vii. Further detail of how the developer will ensure the performance of the system will be safeguarded through later stages of design, construction and commissioning including provision of key information on system performance required by CoP1. viii. A metering strategy.

(b) Within six months of first occupation of any dwellings, evidence shall be submitted in writing to the Local Planning Authority that the development has been registered on the GLA's Be Seen energy monitoring platform.

(b)The final approved Energy Strategy shall be operational prior to the first occupation of the Development. The Development shall be carried out strictly in accordance with the details so approved and shall be operated and maintained as such thereafter.

REASON: To ensure the development reduces its impact on climate change by reducing carbon emissions on site in compliance with the Energy Hierarchy, and in line with London Plan (2021) Policy SI2, SI3, and Local Plan Policy SP4 and DM22.

Overheating

D29 (a) Prior to the commencement of development for Plot 3, or each application for the first reserved matters relating to Appearance, Layout or Scale submitted by phase/block shall be accompanied by a detailed Overheating Assessment. The Overheating Assessment shall be submitted for the written approval of the Local Planning Authority and shall be informed by Dynamic Thermal Modelling based on CIBSE TM59 for the residential spaces and TM49 weather files for London's future weather/temperature projections. The assessment shall be undertaken in line with the following:

- The London Weather Centre dataset for the three DSYs;
- Model the 2020s DSY 2 and 3 and DSY1 for the 2050s and 20280s. Ensure the design has incorporated as many mitigation measures to pass these more extreme and future weather files as far as feasible. Any remaining overheating risk should inform the future retrofit plan.
- The applicant must demonstrate that the risk of overheating has been reduced as far as practical and that all passive measures have been explored, including reduced glazing and increased external shading. The applicant should also outline a strategy for residents to cope in extreme weather events, e.g. use of fans.
- Set out a retrofit plan for future and more extreme weather files, demonstrating how these measures will perform, how they can be installed, how they would reduce the overheating risk, what their lifecycle replacement will be, and who will be responsible for overheating risk.
- Floor plans highlighting the modelled dwelling typologies across the development and showing all rooms (with unique reference number). The applicant is expected to model the following most likely to overheat dwellings, corridors, and communal spaces: at least 15% of all room types across the development site; all single-aspect dwelling types facing west, east, and south; at least 50% of room types on the top floor; 75% of all modelled room types will facing South or South/west; room types closest to any risk of crime / noise and / or air pollution source, with windows closed at all times (unless they do not need to be opened and confirmed in the Noise and the Air Quality Assessments).
- Specify the ventilation strategy, including: floorplans showing which habitable spaces will be predominantly naturally ventilated or mechanically ventilated, specification of the proposed mechanical ventilation (efficiency and air changes), window opening areas.

(b) Any overheating mitigation measures set out in an approved Overheating Assessment shall be implemented before any of the dwellings in the Block to which they relate are first occupied and retained thereafter for the lifetime of the development.

Reason: In the interest of reducing the impacts of climate change, to enable the Local Planning Authority to assess overheating risk and to ensure that any necessary mitigation measures are implemented prior to construction, and maintained, in accordance with London Plan (2021) Policy SI4 and Local Plan (2017) Policies SP4 and DM21.

BREEAM Certificate

D30. a) Prior to commencement of the approved development, a design stage accreditation certificate for **every non-residential use** within that phase must be submitted to the Local Planning Authority confirming that the development will achieve a BREEAM of at least "Very Good" "Excellent" outcome (or equivalent) for non-residential use within that phase. aiming for "Outstanding" where feasible in line with the approved Pre-Assessment report. This should be accompanied by a tracker demonstrating which credits are being targeted, and why other credits cannot be met on site.

(b) The Building shall then be constructed in strict accordance with the details so approved, shall achieve the agreed rating and shall be maintained as such thereafter for the lifetime of the development.

(c) Prior to occupation of any non-residential use within each relevant Phase, a postconstruction certificate issued by the Building Research Establishment (or equivalent) for each non-residential use in that phase must be submitted to the local authority for approval, confirming this standard has been achieved.

(d) In the event that the development fails to achieve the agreed rating for the development, a full schedule and costings of remedial works required to achieve this rating shall be submitted for our written approval with 2 months of the submission of the post construction certificate. Thereafter the schedule of remedial works must be implemented on site within 3 months of the Local Authority's approval of the schedule, or the full costs and management fees given to the Council for offsite remedial actions.

REASON: In the interest of addressing climate change and securing sustainable development in accordance with London Plan (2021) Policies SI2, SI3 and SI4, and Local Plan Policy SP4 and DM21.

Living walls

D34 (a) Prior to the above ground commencement of development, details of the living walls must be submitted to and approved in writing by the Local Planning Authority. Living walls must be planted with species that provide amenity and biodiversity value at different times of year. Plants must be grown and sourced from the UK and all soils and compost used must be peat-free, to reduce the impact on climate change. The submission shall include:

i) A ground/first floor plan identifying where the living walls will be rooted in the ground;
ii) A section demonstrating settled substrate levels of the planters in which the living walls will be rooted, of no less than 250mm;

iii) Details on the range of native species and density of plug plants planted (minimum 20/m2 with root ball of plugs 25cm3) to benefit native wildlife, suitable for the amount of direct sunshine/shading of the different living wall areas;

iv) Management and maintenance plan, including frequency of watering arrangements.

(b) Prior to the occupation of the development, evidence must be submitted to and approved by the Local Planning Authority that the living walls have been delivered in line with the details set out in point (a). This evidence shall include photographs demonstrating the measured depth of substrate, planting and biodiversity measures. If the Local Planning Authority finds that the living walls have not been delivered to the approved standards, the applicant shall rectify this to ensure it complies with the condition. The living walls shall be retained thereafter for the lifetime of the development in accordance with the approved management arrangements.

Reason: To ensure that the development provides the maximum provision towards the creation of habitats for biodiversity and supports the water retention on site during rainfall. In accordance with London Plan (2021) Policies G1, G5, G6, SI1 and SI2 and Local Plan (2017) Policies SP4, SP5, SP11 and SP13.

Circular Economy (Pre-Construction report, Post-Completion report)

D35 Each application for reserved matters shall be accompanied by a detailed Circular Economy Statement in line with the GLA's Circular Economy Statement Guidance, which shall be submitted to and approved in writing by the Local Planning Authority. The statement shall adhere to the principles set out in the draft Circular Economy Statement. The development shall be carried out in accordance with the details so approved.

Reason: In the interests of sustainable waste management and in order to maximise the re-use of materials in accordance with London Plan (2021) Policies D3, SI2 and SI7, and Local Plan (2017) Policies SP4, SP6, and DM21.

Circular Economy Post-Completion Report

D36 Prior to the occupation of the development, a Post-Construction Monitoring Report should be completed in line with the GLA's Circular Economy Statement Guidance.

The relevant Circular Economy Statement shall be submitted to the GLA at: circulareconomystatements@london.gov.uk, along with any supporting evidence as per the guidance. Confirmation of submission to the GLA shall be submitted to, and approved in writing by, the Local Planning Authority, prior to the occupation [of any phase / building/ development.

Reason: In the interests of sustainable waste management and in order to maximise the re-use of materials in accordance with London Plan (2021) Policies D3, SI2 and SI7, and Local Plan (2017) Policies SP4, SP6, and DM21.

Whole-Life Carbon

D37 Prior to the occupation of each building, the post-construction tab of the GLA's Whole Life Carbon Assessment template should be completed in line with the GLA's Whole Life Carbon Assessment Guidance. The post-construction assessment should provide an update of the information submitted at planning submission stage. This should be submitted to the GLA at: ZeroCarbonPlanning@london.gov.uk, along with any supporting evidence as per the guidance. Confirmation of submission to the GLA shall be submitted to, and approved in writing by, the Local Planning Authority, prior to occupation of the relevant building.

Reason: In the interests of sustainable development and to maximise on-site carbon dioxide savings in accordance with London Plan (2021) Policy SI2, and Local Plan (2017) Policies SP4 and DM21.

- - - - -

5. The additional comments from Carbon Management Team have also required the following additions to the Heads of Terms:

Head of Terms number 15 should be amended as follows:

15. Carbon offsetting*

• Payment of an agreed carbon offset amount (residential & non-residential) plus 10% management fee on commencement. Estimated carbon offset contribution (and associated obligations) of £196,365 (indicative), plus a 10% management fee; carbon offset contribution to be re-calculated at £2,850 per tCO2 at the Energy Plan and Sustainability stages.

Additional Heads of Terms to be included:

18. Be Seen commitment to uploading energy data

- **19. Energy Plan**
- 20. Sustainability Review
- 21. Deferred offset contribution mechanism

22. Heating strategy fall-back option if not connecting to the DEN

Existing Heads of Terms "18) Monitoring" and "19) S278 works" of the Committee Report shall be amended to "23) Monitoring" and "24) S278 works".

- - - - -

6. The additional comments from The Carbon Management Team should be read in conjunction with Appendix 4 'Internal and External Consultee representations Civic Centre':

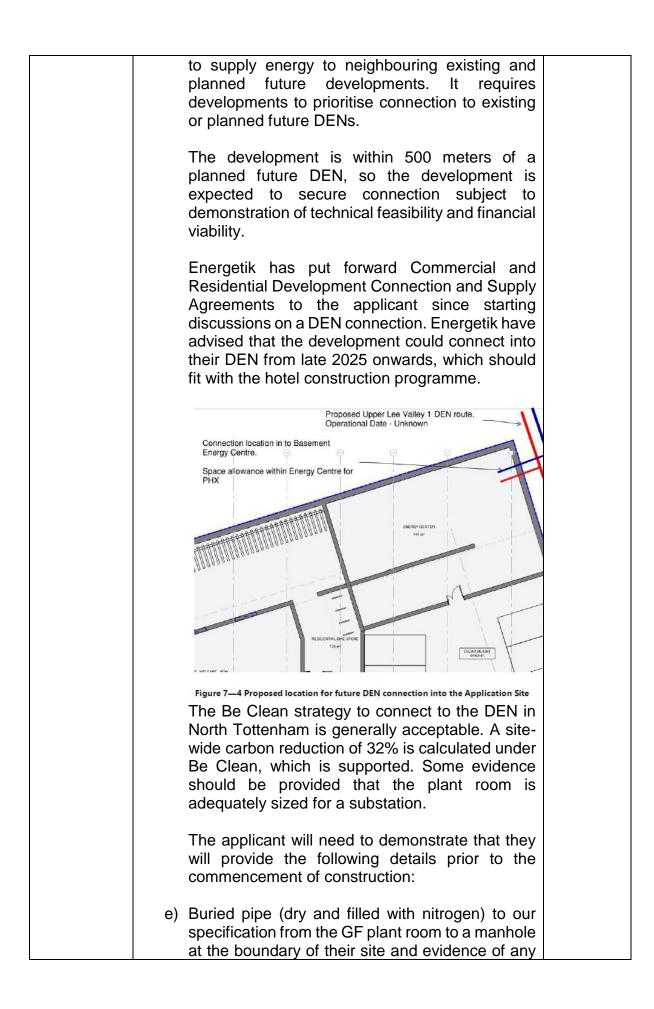
Stakeholder	Comment	Response
Carbon Managemen t	Carbon Management Response 09/12/2023	Noted and incorporat- ed into
	 In preparing this consultation response, we have reviewed: Energy Strategy for Planning prepared by Buro Happold (dated 11 September 2015; Rev 03) Energy Strategy Addendum prepared by Buro Happold (dated 2 August 2023; Rev P04) Energy Strategy Addendum prepared by Buro Happold (dated 20 October 2023; Rev P05) GLA Carbon Emission Reporting Spreadsheet Sustainability Report prepared by Buro Happold (dated 30 July 2015; Rev 01) 	conditions
	 Sustainability Statement Addendum prepared by Buro Happold (dated 2 August 2023; Rev P04) Whole Life Carbon Assessment prepared by Buro Happold (dated 2 August 2023; Rev P02) Circular Economy Statement prepared by Buro Happold rev P00 (dated 24 October 2023) GLA responses Relevant supporting documents. 	

1.	Summary The development achieves a reduction of 47% carbon dioxide emissions on site, which is supported in principle. More information is required but it is believed this can be dealt with through planning conditions.	
2.	Energy Strategy Policy SP4 of the Local Plan Strategic Policies, requires all new development to be zero carbon (i.e. a 100% improvement beyond Part L 2021). The London Plan (2021) further confirms this in Policy SI2.	
	The overall predicted reduction in CO_2 emissions for the development shows an improvement of approximately 47% in carbon emissions with SAP10.2 carbon factors, from the Baseline development model (which is Part L 2021 compliant). This represents an annual saving of approximately 61.4 tonnes of CO_2 from a baseline of 130.3 t CO_2 /year.	
	London Plan Policy SI2 requires major development proposals to calculate and minimise unregulated carbon emissions, not covered by Building Regulations. The calculated unregulated emissions are: 42.2 tCO ₂ .	
	The GLA Energy Assessment Guidance (Chapter 5.2, 6.2 p.11 & p.12) requires the results to demonstrate compliance with the energy hierarchy and the carbon targets for both residential and non-residential separately as set out in Policy SI 2, which the development currently fails.	

Part L 2021 baseline Be Lean Be Clean Be Creen Cumulative savings Carbon shortfall to offset (tCO ₂) Carbon offset contribution 10% management iee Residential (SAP10.2 en Part L 2021 baseline Be Clean Be Clean	Total regulated emissions (Tonnes CO ₂ / year) 71 54.9 12.7 14.2 14.2	CO ₂ savings (Tonnes CO ₂ / year) 21.6 42.2 -2.3 61.4 CO ₂ /year = £196,365 CO ₂ savings (Tonnes CO ₂ / year) 16.1 42.2 -1.5 56.8	Percentage savings (%) 17% 32% -2% 47% 47% Percentage savings (%) 23% 59% -2% 80%
Be Lean Be Clean Be Green Cumulative savings Carbon shortfall to offset (tCO ₂) Carbon offset contribution 10% management iee Residential (SAP10.2 en Part L 2021 baseline Be Lean Be Clean Be Clean Be Green Cumulative savings Carbon shortfall to offset (tCO ₂)	(Tonnes CO ₂ / year) 130.4 108.8 66.5 68.9 £95 x 30 years x 68.9 to £19,636.5 <i>Inssion factors</i>) Total regulated emissions (Tonnes CO ₂ / year) 71 54.9 12.7 14.2	21.6 42.2 -2.3 61.4 CO ₂ /year = £196,365 CO ₂ savings (Tonnes CO ₂ / year) 16.1 42.2 -1.5	Percentage savings (%)
Be Lean Be Clean Be Green Cumulative savings Carbon shortfall to offset (tCO ₂) Carbon offset contribution 10% management see Residential (SAP10.2 en Part L 2021 baseline Be Lean Be Clean Be Clean Be Green Cumulative savings Carbon shortfall to offset (tCO ₂)	130.4 108.8 66.5 68.9 £95 x 30 years x 68.9 to £19,636.5 <i>mission factors</i>) Total regulated emissions (Tonnes CO ₂ / year) 71 54.9 12.7 14.2	42.2 -2.3 61.4 CO ₂ /year = £196,365 CO ₂ savings (Tonnes CO ₂ / year) 16.1 42.2 -1.5	32% -2% 47% Percentage savings (%) 23% 59% -2%
Be Lean Be Clean Be Green Cumulative savings Carbon shortfall to offset (tCO ₂) Carbon offset contribution 10% management iee Residential (SAP10.2 en Part L 2021 baseline Be Lean Be Clean Be Clean Be Green Cumulative savings Carbon shortfall to offset (tCO ₂)	108.8 66.5 68.9 68.9 £95 x 30 years x 68.9 to £19,636.5 mission factors) Total regulated emissions (Tonnes CO ₂ / year) 71 54.9 12.7 14.2	42.2 -2.3 61.4 CO ₂ /year = £196,365 CO ₂ savings (Tonnes CO ₂ / year) 16.1 42.2 -1.5	32% -2% 47% Percentage savings (%) 23% 59% -2%
Be Clean Be Clean Be Green Cumulative savings Carbon shortfall to offset (tCO ₂) Carbon offset contribution 10% management ee Residential (SAP10.2 en Part L 2021 baseline Be Lean Be Clean Be Clean Be Clean Cumulative savings Carbon shortfall to offset (tCO ₂)	66.5 68.9 68.9 £95 x 30 years x 68.9 to £19,636.5 Total regulated emissions (Tonnes CO ₂ / year) 71 54.9 12.7 14.2 14.2	42.2 -2.3 61.4 CO ₂ /year = £196,365 CO ₂ savings (Tonnes CO ₂ / year) 16.1 42.2 -1.5	32% -2% 47% Percentage savings (%) 23% 59% -2%
Be Green Cumulative savings Carbon shortfall to offset (tCO ₂) Carbon offset contribution 10% management ee Part L 2021 baseline Be Lean Be Clean Be Clean Be Clean Be Green Cumulative savings Carbon shortfall to offset (tCO ₂) Von-residential – Hotel a	68.9 68.9 $£95 \times 30$ years x 68.9 to $£19,636.5$ $n/ssion factors)$ Total regulated emissions (Tonnes CO_2 / year) 71 54.9 12.7 14.2	-2.3 61.4 CO ₂ /year = £196,365 CO ₂ savings (Tonnes CO ₂ / year) 16.1 42.2 -1.5	-2% 47% Percentage savings (%) 23% 59% -2%
cumulative savings carbon shortfall to ffset (tCO ₂) carbon offset ontribution 0% management ee <i>lesidential (SAP10.2 en</i> <i>lesidential (SAP10.2 en</i> lesidential (SAP10.2 en lesidential (SAP10.2 en l	68.9 £95 x 30 years x 68.9 to £19,636.5 <i>hission factors)</i> Total regulated emissions (Tonnes CO ₂ / year) 71 54.9 12.7 14.2 14.2	61.4 CO ₂ /year = £196,365 CO ₂ savings (Tonnes CO ₂ / year) 16.1 42.2 -1.5	47% Percentage savings (%) 23% 59% -2%
Carbon shortfall to ffset (tCO ₂) Carbon offset contribution 0% management 28 28 28 29 29 29 29 20 20 20 20 20 20 20 20 20 20	£95 x 30 years x 68.9 to £19,636.5 <i>nission factors)</i> Total regulated emissions (Tonnes CO ₂ / year) 71 54.9 12.7 14.2 14.2	CO ₂ /year = £196,365 CO ₂ savings (Tonnes CO ₂ / year) 16.1 42.2 -1.5	Percentage savings (%) 23% 59% -2%
Carbon shortfall to ffset (tCO ₂) Carbon offset contribution 0% management 28 28 28 29 29 29 29 20 20 20 20 20 20 20 20 20 20	£95 x 30 years x 68.9 to £19,636.5 <i>nission factors)</i> Total regulated emissions (Tonnes CO ₂ / year) 71 54.9 12.7 14.2 14.2	CO ₂ /year = £196,365 CO ₂ savings (Tonnes CO ₂ / year) 16.1 42.2 -1.5	Percentage savings (%) 23% 59% -2%
iffset (tCO ₂) Carbon offset contribution 0% management ee Besidential (SAP10.2 en Part L 2021 baseline Be Lean Be Clean Be Green Cumulative savings Carbon shortfall to iffset (tCO ₂)	£95 x 30 years x 68.9 to £19,636.5 <i>nission factors)</i> Total regulated emissions (Tonnes CO ₂ / year) 71 54.9 12.7 14.2 14.2	CO ₂ savings (Tonnes CO ₂ / year) 16.1 42.2 -1.5	(%) 23% 59% -2%
Carbon offset contribution 0% management ee Residential (SAP10.2 en Part L 2021 baseline Be Lean Be Clean Be Clean Be Clean Cumulative savings Cumulative s		CO ₂ savings (Tonnes CO ₂ / year) 16.1 42.2 -1.5	(%) 23% 59% -2%
contribution 0% management ee Part L 2021 baseline Part L 2021 baseline Be Lean Be Clean Be Green Cumulative savings Carbon shortfall to siffset (tCO ₂) Von-residential – Hotel a		CO ₂ savings (Tonnes CO ₂ / year) 16.1 42.2 -1.5	(%) 23% 59% -2%
0% management ee Residential (SAP10.2 en Part L 2021 baseline Be Lean Be Clean Be Clean Be Green Cumulative savings Carbon shortfall to iffset (tCO ₂)	nission factors) Total regulated emissions (Tonnes CO ₂ / year) 71 54.9 12.7 14.2	(Tonnes CO ₂ / year) 16.1 42.2 -1.5	(%) 23% 59% -2%
ee Part L 2021 baseline Be Lean Be Clean Be Green Cumulative savings Carbon shortfall to iffset (tCO ₂)	nission factors) Total regulated emissions (Tonnes CO ₂ / year) 71 54.9 12.7 14.2	(Tonnes CO ₂ / year) 16.1 42.2 -1.5	(%) 23% 59% -2%
art L 2021 baseline e Lean e Clean e Green umulative savings arbon shortfall to ffset (tCO ₂)	Total regulated emissions (Tonnes CO ₂ / year) 71 54.9 12.7 14.2 14.2	(Tonnes CO ₂ / year) 16.1 42.2 -1.5	(%) 23% 59% -2%
eart L 2021 baseline te Lean Le Clean Le Green cumulative savings carbon shortfall to ffset (tCO ₂)	Total regulated emissions (Tonnes CO ₂ / year) 71 54.9 12.7 14.2 14.2	(Tonnes CO ₂ / year) 16.1 42.2 -1.5	(%) 23% 59% -2%
Part L 2021 baseline Be Lean Be Clean De Green Cumulative savings Carbon shortfall to offset (tCO ₂)	Total regulated emissions (Tonnes CO ₂ / year) 71 54.9 12.7 14.2 14.2	(Tonnes CO ₂ / year) 16.1 42.2 -1.5	(%) 23% 59% -2%
Part L 2021 baseline Be Lean Be Clean Be Green Cumulative savings Carbon shortfall to offset (tCO ₂) Non-residential – Hotel a	Total regulated emissions (Tonnes CO ₂ / year) 71 54.9 12.7 14.2 14.2	(Tonnes CO ₂ / year) 16.1 42.2 -1.5	(%) 23% 59% -2%
Be Lean Be Clean Be Green Cumulative savings Carbon shortfall to offset (tCO ₂) Non-residential – Hotel a	emissions (Tonnes CO ₂ / year) 71 54.9 12.7 14.2 14.2	(Tonnes CO ₂ / year) 16.1 42.2 -1.5	(%) 23% 59% -2%
Be Lean Be Clean Be Green Cumulative savings Carbon shortfall to offset (tCO ₂) Non-residential – Hotel a	(Tonnes CO ₂ / year) 71 54.9 12.7 14.2 14.2	16.1 42.2 -1.5	23% 59% -2%
Be Lean Be Clean Be Green Cumulative savings Carbon shortfall to offset (tCO ₂) Non-residential – Hotel a	71 54.9 12.7 14.2 14.2	42.2 -1.5	59% -2%
Be Lean Be Clean Be Green Cumulative savings Carbon shortfall to offset (tCO ₂) Non-residential – Hotel a	54.9 12.7 14.2 14.2	42.2 -1.5	59% -2%
Be Clean Be Green Cumulative savings Carbon shortfall to offset (tCO ₂) Von-residential – Hotel a	12.7 14.2 14.2	42.2 -1.5	59% -2%
Be Green Cumulative savings Carbon shortfall to offset (tCO ₂) Non-residential – Hotel a	14.2 14.2	-1.5	-2%
Be Green Cumulative savings Carbon shortfall to offset (tCO ₂) Non-residential – Hotel a	14.2 14.2		-2%
Cumulative savings Carbon shortfall to offset (tCO ₂) Non-residential – Hotel a	14.2		
Carbon shortfall to offset (tCO ₂) Non-residential – Hotel a		50.0	3070
offset (tCO2) Non-residential – Hotel a			
Non-residential – Hotel a			
	Total regulated	CO ₂ savings	Percentage savings
	emissions	(Tonnes CO ₂ / year)	(%)
	(Tonnes CO ₂ / year)		1.
Part L 2021 baseline	59.4		
Be Lean	53.8	5.5	9%
Be Clean	53.8	0	0%
Be Green	54.7	-0.9	-1%
Cumulative savings		4.7	8%
Carbon shortfall to	54.7		
ffset (tCO2)			
Guidanc should		2). The Ene porting templa guidance, inc	ergy Strategy te set out in cluding what
methodo the tota exclude	blogy has been I energy cons on-site renew use from elect	umed annuall able energy ge	y, but should eneration and
methodo the tota exclude	l energy cons	umed annuall able energy ge	y, but should eneration and
methodo the tota exclude	l energy cons on-site renew	umed annuall able energy ge	y, but should eneration and
methodo the tota exclude	l energy cons on-site renew	umed annuall able energy go ric vehicle cha	y, but should eneration and
methodo the total exclude energy u	I energy cons on-site renew use from elect EUI (kWh/m²/year)	umed annuall able energy ge ric vehicle cha Space Heating Demand (KWh/m²/year)	y, but should eneration and arging.
methodo the total exclude energy o	l energy cons on-site renew use from elect	umed annuall able energy go ric vehicle cha	y, but should eneration and arging. Methodology use Part L2 approved
methodo the total exclude energy u Building type	l energy cons on-site renew use from elect EUI (kWh/m²/year) 238.76	umed annuall able energy ge ric vehicle cha Space Heating Demand (kWh/m²/year) 15.08	y, but should eneration and arging. Methodology used Part L2 approved DSM
methodo the total exclude energy u Building type Hotel Residential	l energy cons on-site renew use from elect EUI (kWh/m²/year) 238.76 51.06	umed annuall able energy ge ric vehicle cha Space Heating Demand (kWh/m²/year) 15.08 5.52	y, but should eneration and arging. Methodology used Part L2 approved DSM Part L1 2021 SAP
methodo the total exclude energy u Building type	l energy cons on-site renew use from elect EUI (kWh/m²/year) 238.76	umed annuall able energy ge ric vehicle cha Space Heating Demand (kWh/m²/year) 15.08	y, but should eneration and arging. Methodology used Part L2 approved DSM

Although supported in principle, this is very low

Passivhaus schen - The applicant sho to reduce the EUI	ould also undertake more effort further to the benchmark of 35 r the residential and 55
The applicant has in carbon emission energy efficiency so build, based on residential goes bo Be Lean, but th development fails of minimum 15%	proposed a saving of 18.8 tCO ₂ ons (16 %) through improved standards in key elements of the SAP10.2 carbon factors. The eyond the 10% minimum under e non-residential part of the to demonstrate the compliance reduction as set out in London id the GLA Energy Assessment
The following u-va are proposed:	lues, g-values and air tightness
Floor u-value	0.13 W/m²K
Curtain Wall	0.64 W/m²K
Roof u-value	0.13 W/m²K
Door u-value	Not disclosed
Window u-value	0.624 W/m²K
G-value	0.3-0.5
Air permeability rate	3 m ³ /hm ² @ 50Pa
Ventilation strategy	Mechanical ventilation with heat recovery (MVHR §
Ventilation Strategy	
Waste Water Heat recovery?	efficiency; 0.58-0.63 W/l/s Specific Fan Power)
	To be explored at the next design stage.
Thermal bridging	Accredited Construction Details
Low energy lighting	100%
Heating system (Be Lean)	Residential: Individual gas boiler
Improvement from the target fabric	Non-Residential: Energetik DEN notional efficiency
Improvement from the target fabric	12% improvement, from 31.56 to 27.86 kWh/m2/y
Energy – Clean London Plan F development in F have a commu system, with the hierarchy of optio existing or plann Policy DM22 of t Document suppor the provision and Network (DEN) developments inc	alt with in more detail below. Policy SI3 calls for major leat Network Priority Areas to nal low-temperature heating heat source selected from a ns (with connecting to a local ed heat network at the top). he Development Management ts proposals that contribute to use of Decentralised Energy infrastructure. It requires orporating site-wide communal to examine opportunities to



	obstructions in highway adjacent to connection point;	
f)	A good quality network within the building – 60/40 F&R, <50W/dwelling losses from the network –	
	ideally to an agreed standard in the S106; A clear plan for QA of the network post-design	
9)	approval through to operation, based on CP1;	
h)	A clear commercial strategy identifying who will	
	sell energy to residents and how prices/quality of	
	service will be set.	
	The applicant's alternative low-carbon heating strategy is to:	
-	Install air source heat pumps (ASHPs) for hotel	
	rooms and amenity spaces with low temperature hot water for space heating, and fan coil units to	
	amenity areas	
-	Basement water source heat pumps to increase temperature of ASHP for domestic hot water to	
	hotel and amenity areas	
-	Include domestic hot water thermal stores	
-	Provide future connection to DEN if it becomes available	
-	Have a mid-level plant room ASHP serving	
	residential flats with low-temperature hot water	
	and domestic hot water through heat interface units.	
-	The space for ASHPs should be safeguarded until	
	it is confirmed the DEN is definitively not going to	
	be available for connection.	
	<u>Action:</u> Clarify if the fan coil units would be in addition to	
	the ASHP for hotel amenity.	
-	Demonstrate plant room layout and space	
	requirements for roof, mid-level, and thermal	
	stores.	
-	Please provide the alternative low-carbon heating scenario that shows the carbon reduction	
	following the Energy Hierarchy, and state what	
	carbon factor has been used.	
-	Please identify on the plans where the alternative	
	heating solution: the air source heat pumps will be located and how the units will be mitigated in	
	terms of visual and noise impact.	
	Energy – Green	
	As part of the Be Green carbon reductions, all	
	new developments must achieve a minimum	

	reduction of 20% from on-site renewable energy generation to comply with Policy SP4.	
	The application has reviewed the installation of various renewable technologies. The report concludes that solar photovoltaic (PV) panels are the most viable options to deliver the Be Green requirement. However, the application has proposed a deterioration with an increase of 2.3 tCO_2 (-2%) of emissions under Be Green measures. This is because the baseline model assumes a minimum capacity of solar PV to be delivered in this type of development, and this scheme therefore proposes less than the notional baseline model.	
	The proposed solar array peak would cover 90m ² of roof space generating around 20kWp with 400Watt panels of 22.6% efficiency and 0.98 electric conversion factor.	
	Officers believe that further space could be found on the roof to generate electricity. It is not clear from the proposals whether all plant will have heat rejection, and whether more space could be found where there isn't. At a later design stage the design team might be able to increase the solar capacity when finalising the plant layout and capacity requirements.	
	Energy – Be Seen London Plan Policy SI2 requests all developments to 'be seen', to monitor, verify and report on energy performance. The GLA requires all major development proposals to report on their modelled and measured operational energy performance. This will improve transparency on energy usage on sites, reduce the performance gap between modelled and measured energy use, and provide the applicant, building managers and occupants clarity on the performance of the building, equipment and renewable energy technologies.	
-	The proposed metering strategy of the building by the report includes the following: Additional meter on the main resident's supply (or residents meter readings need to be collected and collated individually) Renewables are sub-metered for generation	

 · · · · · · · · · · · · · · · · · · ·
 Special uses (such as electric vehicle charging) is sub-metered Individual bi-directional heat meters per dwelling Provide a visual energy display device to raise awareness and make users responsible for their energy consumption Meter and report landlord areas separately Commercial areas metered and reported separately Ensure OFGEM compliant meters Upload data to publicly accessible platform for five years.
Please ensure the_planning stage energy performance data has been submitted to the GLA webform for this development: (https://www.london.gov.uk/what-we- do/planning/implementing-london-plan/london- plan-guidance/be-seen-energy-monitoring- guidance/be-seen-planning-stage-webform)
 3. Carbon Offset Contribution A carbon shortfall of 68.9 tCO₂/year remains. The remaining carbon emissions will need to be offset at £95/tCO₂ over 30 years. A deferred carbon offset contribution mechanism will apply to this scheme as it is expected to connect to the DEN when this has been built.
 The applicant should present two carbon reduction table scenarios: Scenario 1: Connection to the DEN scenario (residual tCO₂ over 30 years) Scenario 2: Alternative Low Carbon Heating scenario (residual tCO₂ over 30 years) Two carbon offset payments will be calculated. The carbon offset contribution for scenario 1 will be due at the commencement of development and the difference in the offset contribution between the first and second scenarios will be deferred for 10 years and indexed accordingly.
 Payment for the residual emissions in the DEN scenario (Scenario 1) would be due at commencement of development. A deferred carbon offset contribution is calculated through the difference in the offset contribution: Scenario 2 – Scenario 1 = Deferred Payment.

	TM59 – criterion A (<3% hours of overheating)	TM59 – criterion B hours >26°C (pass <33 hours)	Number of spaces pass TM52	Numbe
DSY1 2020s	8/8	5/5	3/3	
DSY2 2020s	8/8	5/5	3/3	
DSY3 2020s	8/8	5/5	2/3	
DSY1 2050s	Not modelled			
DSY1 2080s	Not modelled			
Mec	hanically vent			
	TM59 – criterion A (<3% hours of overheating)	TM59 – criterion B hours >26°C (pass <33 hours)	Number of spaces pass TM52	Numbo
DSY1 2020s	2/8	0/5	2/3	
of r resu wea for 2 DSY All r 2020 this, - Natu and - Glaz - Intel - Sha - MVH - No a The acce undo redu undo (wea etc), dem	ilated scenarion mechanical ve ult in all unit ther files. Fur 2020s DSY2, D	entilation and s passing the ther modelling DSY 3, 2050s e overheating 7 2 and DSY3. measures will a, with openable of 90° 0.3 to 0.5 ng façade er bypass (XX erheating Strate ciple, but furth early detailed e the cooling modelling to un typologies, co trofit plan, hea all possible pa	w the introduct comfort code should be constructed DSY1 and 20 requirements In order to provide the built: all areas of a l/s)	ered t be e to rely, risk ces., and
Polie Doc sust tech repo the	cy DM21 of the second s	s development gn, layout a sustainability proposed mea of the scl	ts to demonst nd construct section in asures to impl neme, inclu	trate tion the rove ding

drainage, biodiversity, climate resilience, energy and CO2 emissions and landscape design. <i>Non-Domestic BREEAM Requirement</i> Policy SP4 requires all new non-residential developments to achieve a BREEAM rating 'Very Good' (or equivalent), although developments should aim to achieve 'Excellent' where achievable.	
Policy SP4 requires all new non-residential developments to achieve a BREEAM rating 'Very Good' (or equivalent), although developments should aim to achieve 'Excellent' where achievable.	
The applicant has also prepared a BREEAM Pre- Assessment Report for the hotel use. Based on this report, a score of 85.7% is expected to be achieved, just equivalent to an 'Outstanding' rating but the applicant has noted that the 'Excellent' rating is attainable with some additional requirements. The 'Very Good' rating is targeted. It appears a potential score of 101.7% could be achieved.	
This is an improvement on the original Pre- Assessment of achieving 'Very Good' with scores of 60%. Code for Sustainable Homes was also initially targeted, but this is no longer in force.	
Urban Greening / Biodiversity All development sites must incorporate urban greening within their fundamental design and submit an Urban Greening Factor Statement, in line with London Plan Policy G5. London Plan Policy G6 and Local Plan Policy DM21 require proposals to manage impacts on biodiversity and aim to secure a biodiversity net gain. Additional greening should be provided through high- quality, durable measures that contribute to London's biodiversity and mitigate the urban heat island impact. This should include tree planting, shrubs, hedges, living roofs, and urban food growing. Specifically, living roofs and walls are encouraged in the London Plan. Amongst other benefits, these will increase biodiversity and reduce surface water runoff. Living walls should be rooted in the ground with sufficient substrate depth.	
Urban Greening Factor is 0.13, which is low and the team believe that further greening should be incorporated to reduce the urban heat island effect, improve visual amenity and biodiversity.	

Action: - Please provide the biodiversity net-gain
calculation. It is recommended to use the Biodiversity Metric 4.0. The calculation tools and user guide for the biodiversity metric are
published on Natural England's Access to Evidence website. The user guide describes how to gather the information needed for the metric
calculations. https://nepubprod.appspot.com/publication/6049 804846366720
<i>Climate Change Adaptation</i> Developments of this size should have a climate change adaptation strategy in place for residents and visitors to help the area become more resilient against the impacts of climate change. This should include adaptation to increased risk of flooding and wind-based impacts from more frequent and severe storm events, longer periods of drought (in relation to the soft landscaping and limiting occupant water use), more intense and longer heatwaves. The development should allocate publicly accessible 'cool spaces', following the <u>GLA's criteria for cool</u> <u>spaces</u> and to form part of the wider <u>cool spaces</u> <u>map</u> .
Action: - Identify in what ways the development will increase the resilience of residents and businesses and adapt their public realm to the impacts of climate change.
Whole Life-Cycle Carbon Assessments Policy SI2 requires developments referable to the Mayor of London to submit a Whole Life-Cycle Carbon Assessment and demonstrate actions undertaken to reduce life-cycle emissions.
The total calculated emissions based on the GIA (without grid decarbonisation) is estimated at:

	Estimated carbon emissions	GLA benchmark (Hotel)	Embodied ca rating (Indust
Construction Stages Modules A1- A5 (excl. sequestration)	824 kgCO ₂ e/m²	Meets GLA benchmark (<850 kgCO ₂ e/m ²) but misses the aspirational target (<500 kgCO ₂ e/m ²).	Modules A1-A achieve a ban of 'D-E', not n the LETI 2020 Target for office/resident categories
Use and End-Of- Life Stages Modules B-C (excl. B6 and B7)	349 kgCO₂e/m²	Meets meet GLA target (<350 kgC0 ₂ e/m ²) but misses the aspirational benchmark (<300 kgC0 ₂ e/m ²).	
Modules A-C (excl B6, B7 and incl. sequestration)	1,171 kgCO ₂ e/m ²	Meets GLA target (<1200 kgCO ₂ e/m ²) but misses the aspirational benchmark (<800 kgCO ₂ e/m ²).	Modules A1-E (incl sequestra achieve a lette rating of 'C-D, meeting the L Design Target office/resident categories.
Use and End-Of- Life Stages Modules B6 and B7	1,316 kgCO ₂ e/m ²	N/A	
	-461 kgCO ₂ e/m ²	N/A	
• Improve the fa		structural desig	ne with
 longer lasting, Reduction of cement option Sourcing of reembodied carl Equipment wit Minimising cool Reduce leakage 	concrete , depending eused steel bon for roof h longer life oling equip ge of refrige	ality materials content and alto g on the supply of (could be 134 f and terrace) espan ment erant	ernative chain CO2 of
longer lasting, Reduction of cement option Sourcing of re embodied carb Equipment wit Minimising coo Reduce leakag Specify a more pipework and <i>Circular Econo</i>	concrete , depending eused steel bon for roof ch longer life oling equip ge of refrige e efficient N ductwork le	ality materials content and alto g on the supply of (could be 134 to and terrace) espan ment erant IEP kit; with redu	ernative chain CO2 of uction of

circular economy within the design and aim to be net zero waste. Haringey Policy SP6 requires developments to seek to minimise waste creation and increase recycling rates, address waste as a resource and requires major applications to

submit Site Waste Management Plans.

The principles used for this development are:

 Designing for longevity, circa 50 years of building life, and 25 years of building structures life and disassembly at end of life Designing for flexibility and adaptable use spaces and will allow for a different building use through a modular design strategy Retaining existing substructure and plan to extend the existing foundation area Minimise operational waste and provide adequate space for recycling
The report sets out the Key Commitments (Table 3-1), Bill of materials (Table 3-2) and Recycling and waste reporting form (Table 3-3). This is a fairly high level of information, and the applicant expects this to become more detailed as the detailed design progresses following permission.
 6. Planning Conditions Energy strategy Overheating BREEAM Certificate Living walls Circular Economy (Pre-Construction report, Post-Completion report) Whole-Life Carbon Biodiversity
 7. Planning Obligations Heads of Terms Be Seen commitment to uploading energy data Energy Plan Sustainability Review Estimated carbon offset contribution (and associated obligations) of £196,365 (indicative), plus a 10% management fee; carbon offset contribution to be re-calculated at £2,850 per tCO2 at the Energy Plan and Sustainability stages. Deferred offset contribution mechanism DEN connection (and associated obligations) Heating strategy fall-back option if not connecting to the DEN