

Planning Communities Executive Advisory Panel

Monday 27 March 2023

Agenda Item 4

Presentation on Kettering Energy Park – Draft Masterplan









Head of Development – South East & London Developer and 'Enablers' of Energy Park

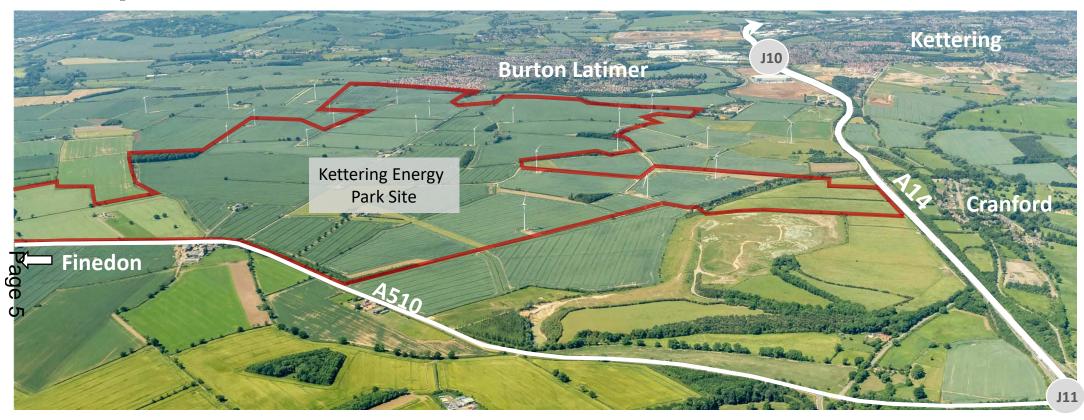


Matthew Thomas

Michael Sparks Associates - Chartered Architects and Planning Consultants



Recap



- Purpose of the Masterplan
 - Policy 26 of the Joint Core Strategy
- Policy Panel Review 24th of October 2022

- Website Consultation
- Development of the Masterplan
 - Lapwing Area
 - Further Highway modelling now commenced



The Opportunity

- Climate and Environment Emergency
- Transition towards Net Zero
- Investment in infrastructure for the future
- The Energy Crisis
- Food Security & Supply
- Availability of Existing Energy Infrastructure
- Few Sites can offer what the Energy Park can First of it's kind
- Scale of the Energy Park should make best use of this opportunity











Opportunity

The Energy Park provides an opportunity to address these issues using a sustainable and holistic approach to support:

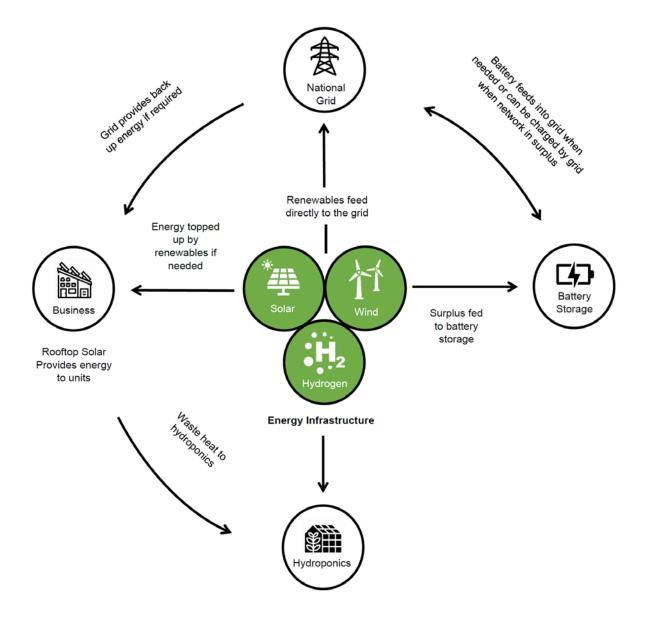
- Access to Secure & Renewable Energy
- Additional Renewable Energy Infrastructure
- Future technologies and larger employment units
- Drive towards Net Zero Carbon

Anticipated Benefits

- 550 jobs during construction
- 5,500 jobs during operational phase
- Investment of £512m during the construction phase
- Investment of £167m per annum into the local economy through wages
- Business rates of circa £8m per annum

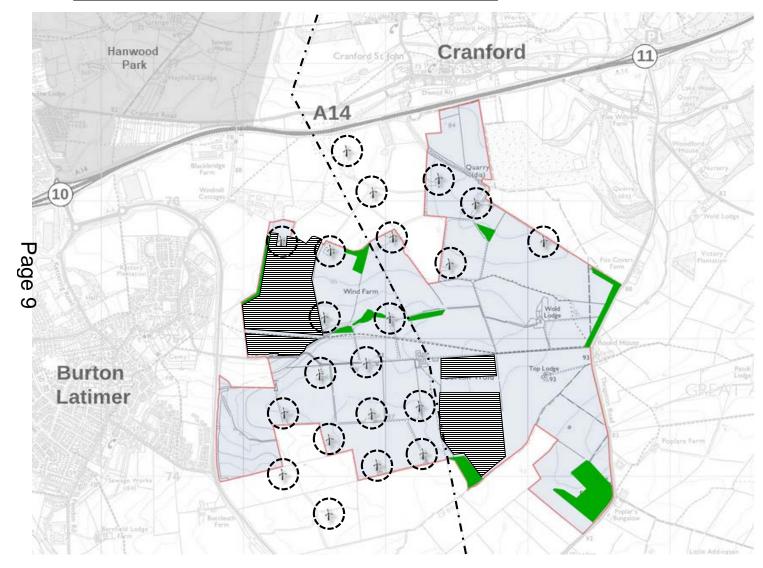
Enabling Infrastructure for the Energy Park will total c.£40m in addition to the above.







Land Use Framework



Existing Infrastructure





Consented Solar Farm

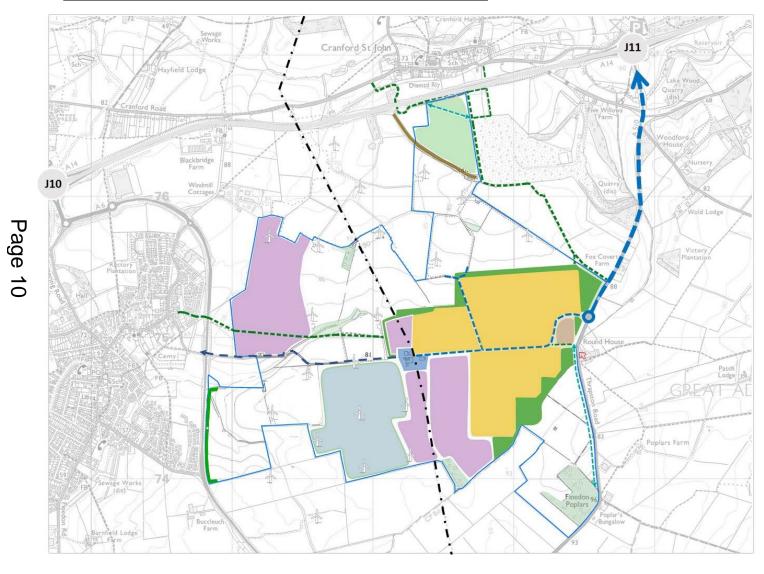


Existing overhead power line





Land Use Framework



Proposed Uses

- Energy Infrastructure
 - Solar Farms
 - Battery Storage
 - Other Appropriate Energy (e.g. Hydrogen, ground source heat)
 - Grid Connection
- Future Technology Centre
- Hydroponics/Advanced Agriculture
- Employment
 All subject to Energy Criteria
- **Biodiversity Net Gain Area**
- Strategic Landscape Buffers
- Existing Landscape



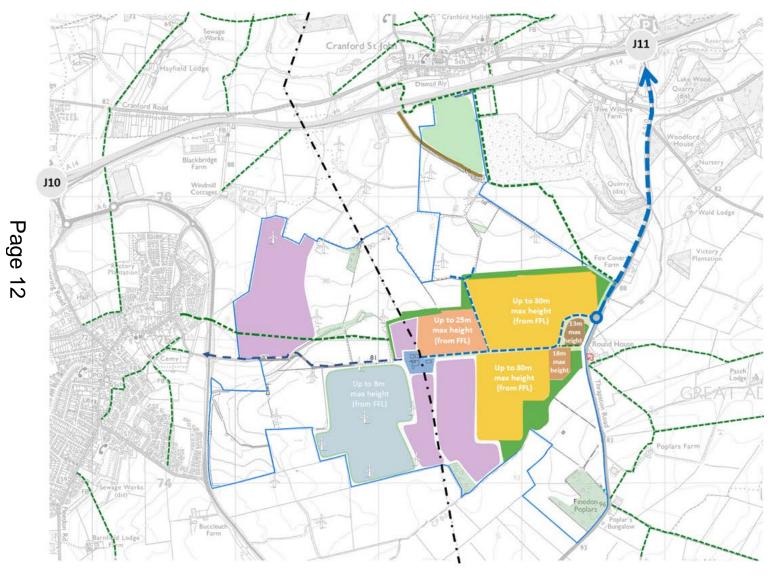
Energy Criteria

Requirement to meet 2 out of the 3 below criteria.

- 1. The proposed operations are associated with activities related to:
 - Energy Infrastructure potentially including: Solar, CHP (if sustainably powered), hydrogen, ground source heat pump, battery storage and other appropriate technologies (biomass is excluded from this list);
 - Automation of operations, e.g. manufacturing using robotic assistance / automated processes, logistics and distribution operations using intelligent robotics, automated scanning or picking, as well as measures that can increase efficiency and productivity; and/or
 - Engineering, manufacturing, R&D or other operations linked to low/zero carbon sectors or the transition away from fossil fuel dependency.
- 2. A minimum of 50% of the energy demand from operations within the new unit is provided by the on-site renewable infrastructure;
- 3. Every unit will have access to a minimum power supply based on the ration of the 1MW per 100,000sq ft/ 9,290 sqm.



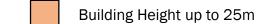
Building Heights



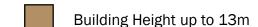
Height of existing Wind Turbines approx. 110m

- Lower building heights to the east adjacent to the Round House
- Higher building heights in the middle of the site
- Building Heights to allow for flexibility from occupiers
- Will be fully tested at application stage through Landscape and Visual Impact Assessment
- Landscape Buffers provided around the site perimeter to help screen new development





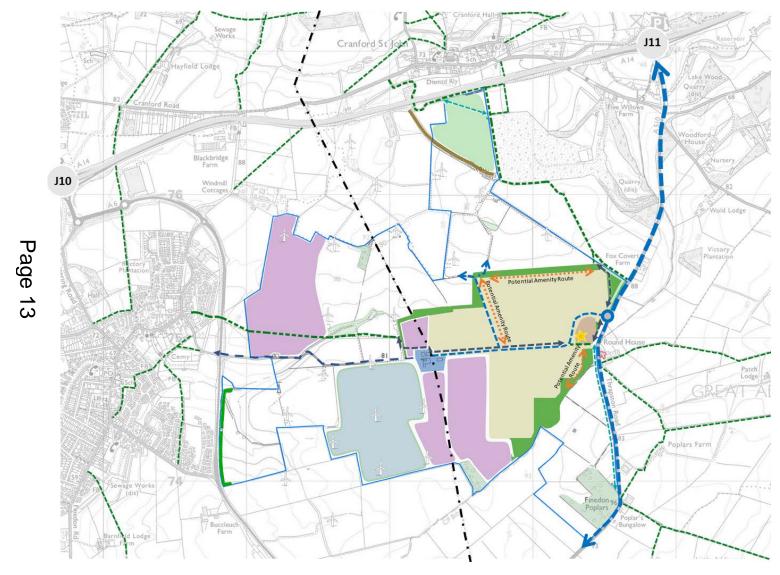








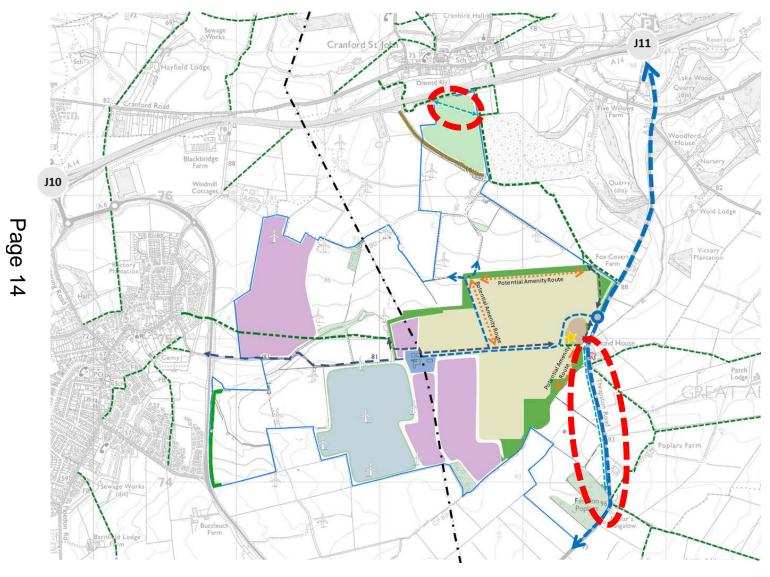
Movement Framework



- New site Access from A510 to north of the Round House
- Estate Road to follow alignment of Wold Road – with shared footway/cycleway within the site
- Public rights of way diverted
 - Footpath along Wold Road
 - Bridleway to the north
- Amenity Routes Provided within the site for use by employees
- Mobility Hub to support sustainable travel
- Improved bus connections (existing service enhancements, shuttle bus serving the site etc)
- Wold Road used for cycling and pedestrian connections towards Burton Latimer
- New Permissive Routes provided to supplement Public rights of way
 - Across Biodiversity Net Gain Area
 - To the south along A510



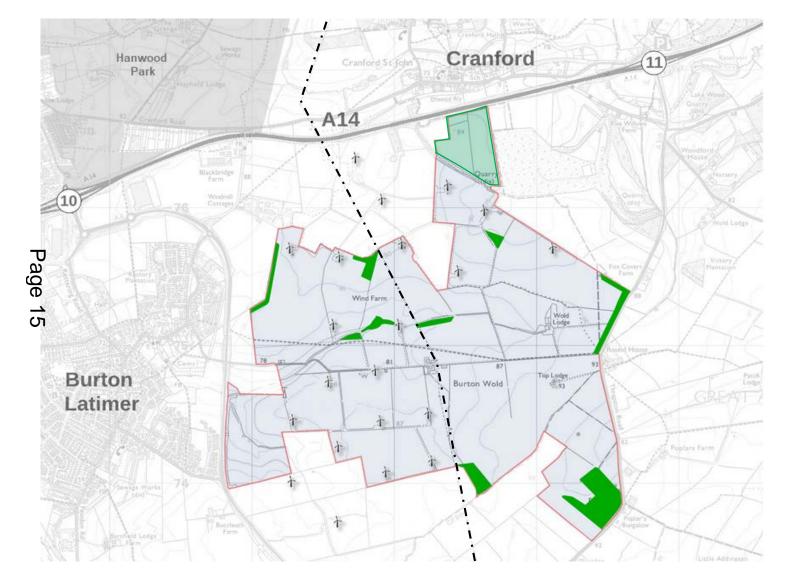
Movement Framework



- New site Access from A510 to north of the Round House
- Estate Road to follow alignment of Wold Road – with shared footway/cycleway within the site
- Public rights of way diverted
 - Footpath along Wold Road
 - Bridle way to the north
- Amenity Routes Provided within the site for use by employees
- New Permissive Routes provided to supplement Public rights of way
 - Across Biodiversity Net Gain Area
 - To the south along A510
- Mobility Hub provided
- Improved bus connections (existing service enhancements, shuttle bus serving the site etc)
- Wold Road used for cycling and pedestrian connections towards Burton Latimer



Green Infrastructure & Landscape Strategy

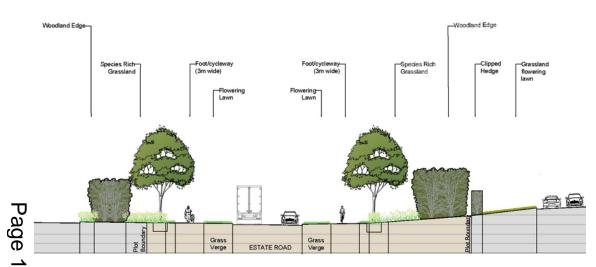




- Retention of existing features and existing trees and hedgerows where possible.
 - New site access will affect boundary planting along A510
- Replacement tree planting will be provided as part of a strategic landscape scheme, also including scrub planting drainage features, amenity areas and walking routes
- Bunds will be provided around the perimeter to elevate planting and assist with screening of new development
- New landscape will be subject to management and maintenance programme
- Development set back from the Round House to provide open aspect
- Views towards the Round House maintained from within the site

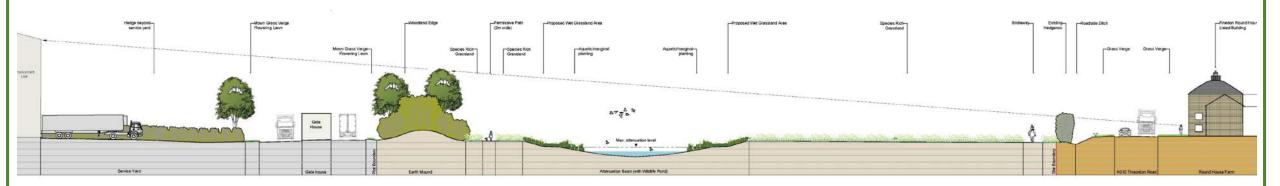


Green Infrastructure & Landscape Strategy





o Illustrative Estate Road Cross Section



Illustrative Cross Section of Potential Employment Unit & site frontage opposite the Round House



Drainage Strategy

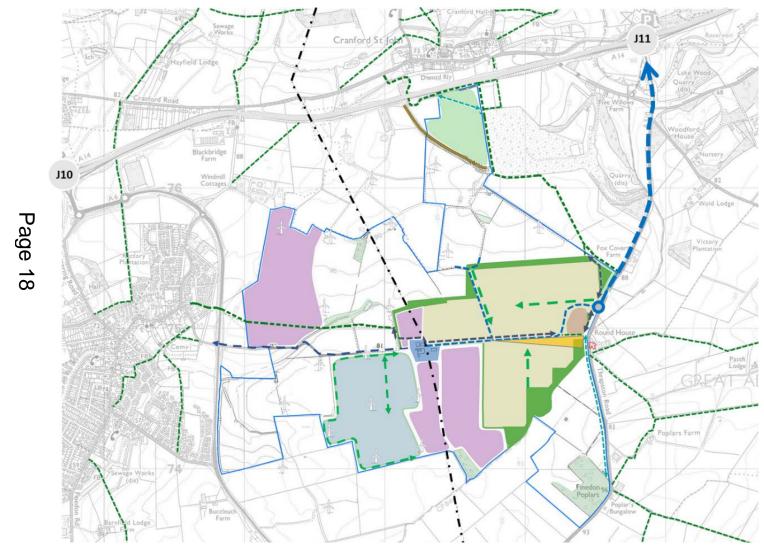




- The Drainage Strategy for the site will adopt Sustainable Urban Drainage features, including opportunities for swales, filter drains and attenuation basins. It is anticipated that surface water will drain to existing watercourses.
- The Hydroponic uses will use rain water harvesting, collecting water from run off for use within the growing system.
- The drainage strategy will be prepared in conjunction with the project ecologist to provide biodiversity benefits.

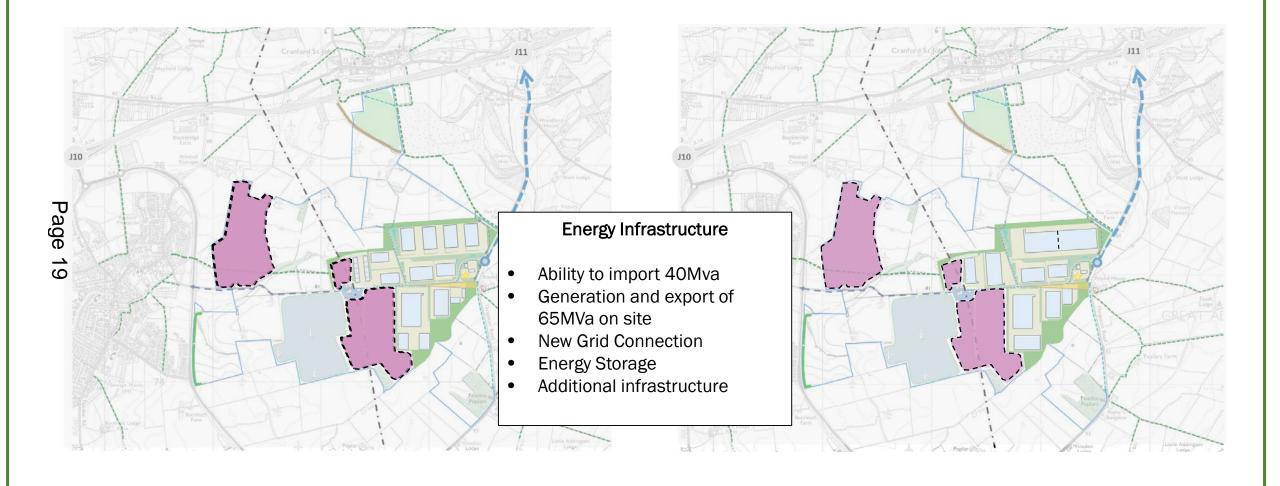


<u>Proposed Masterplan Framework – Response to Policy 26</u>

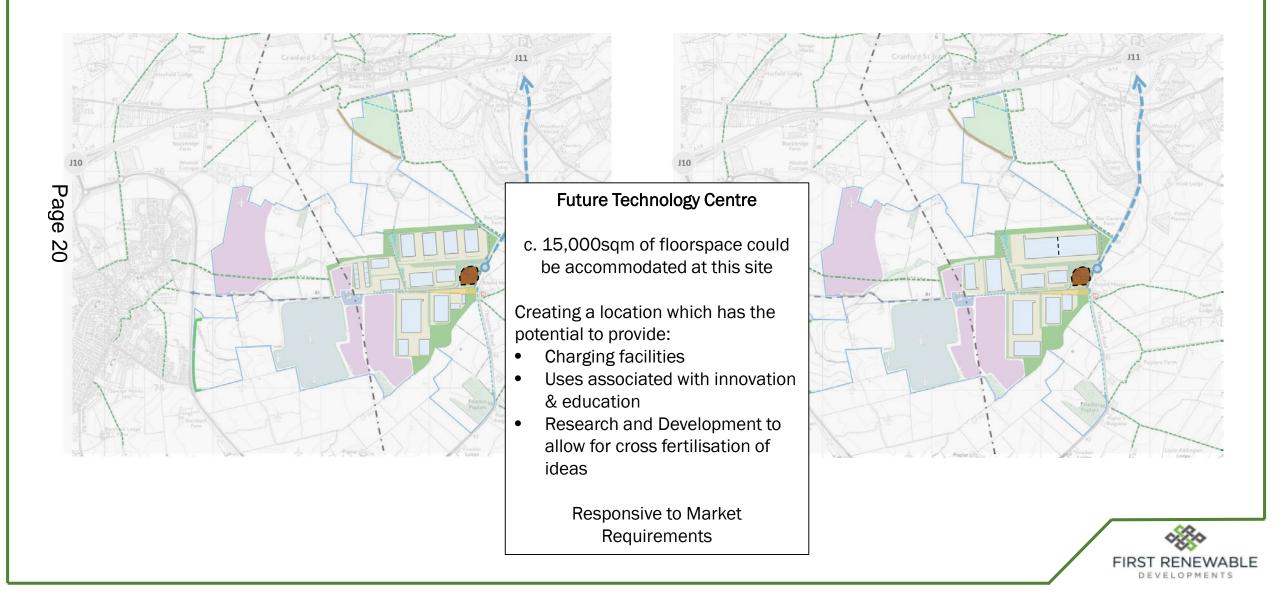


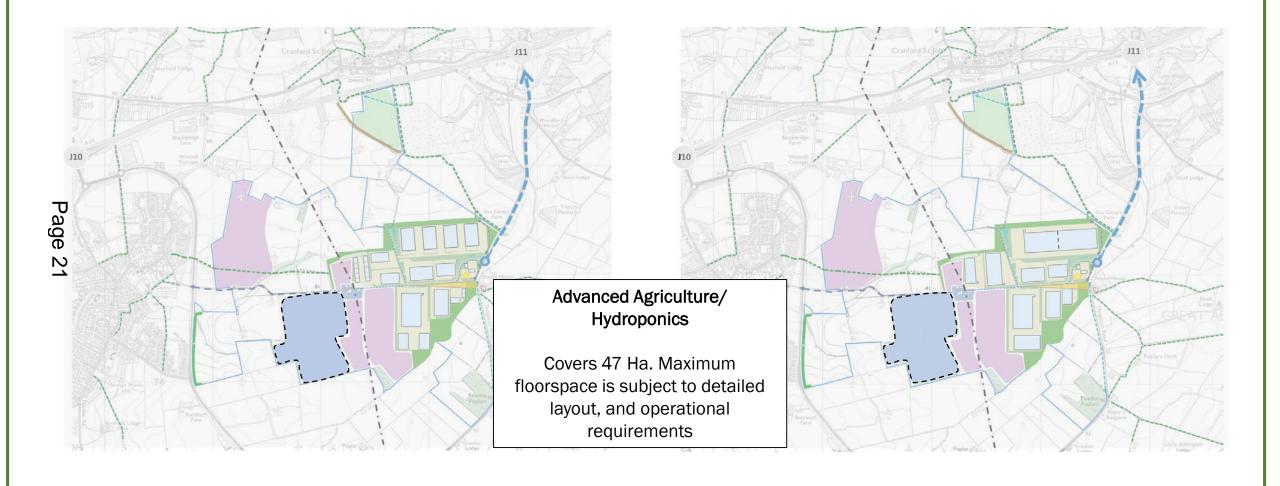
- Responds to Policy 26
- Strategic Development Parameters to crystalise opportunity
- Informed by consultation
- Inclusion of Permissive Routes
- Set Back from the Round House
- Secure Key views to Round House
- Incorporates Lapwing habitat area
- Landscape Buffers
- Landscape to break up development plots



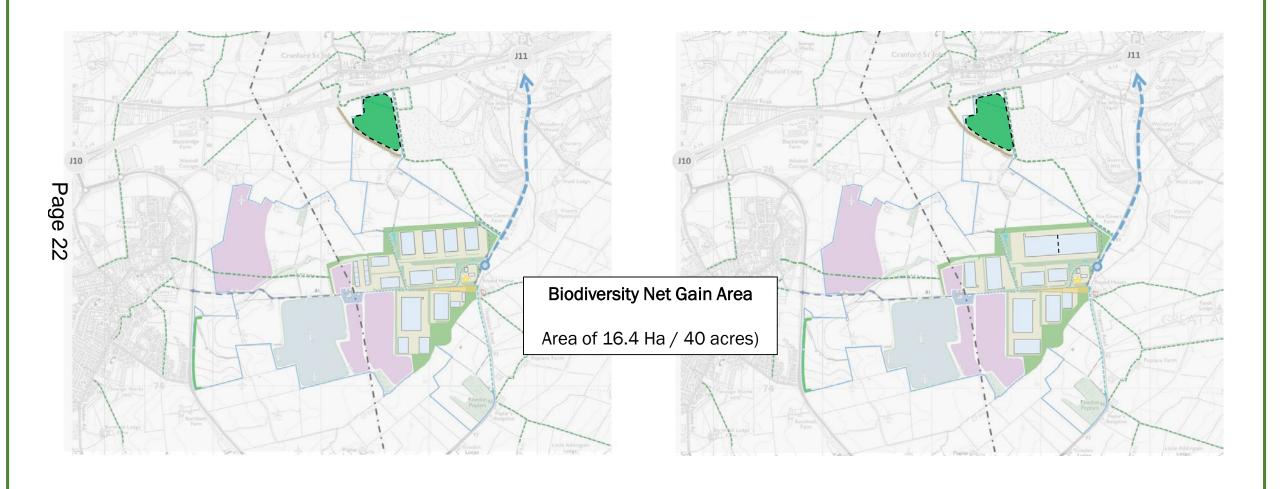


















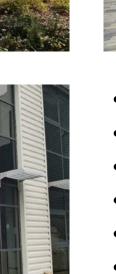




Design Principles









- Target BREEAM Excellent
- EPC Rating of A
- Solar PV on roof space
- Building Efficiency
- Water Efficient
- Flexible Building Form
- Energy Usage Monitoring





Delivery

Requirements for Outline Application

Supporting reports will assess the impacts of the development based on the maximum extent of the development that could come forward at the site, including but not limited to;

Acoustic Assessment – Air Quality Assessment – Archaeology Assessment – Biodiversity Net Gain Assessment Heritage Impact Assessment – Landscape & Visual Assessment – Transport Assessment

Planning Conditions & S106 Agreements

Planning conditions and legal obligations will be used to ensure that likely impacts identified at the outline planning stage will be addressed and mitigated as development comes forward:

- Highways Works (subject to assessment)
 - New Site Access
 - Junction Works e.g. A6/A510 at Finedon
- PRoW, Permissive & Cycle Routes

- Community Fund
- Employment & Skills Plan
- Landscape management and maintenance
- Biodiversity Net Gain

Design Code

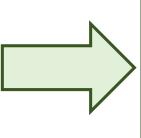
Development will be expected to address relevant planning policies as well as the vision and objectives of the Masterplan. A design code will be prepared to support the delivery of a quality development at the Energy Park. The design code for the Energy Park will be informed by the National Model Design Code.



Planning Process

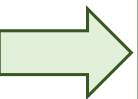
Masterplan ନ୍ଧି Adopted July 2023

27



Outline Planning Application

Summer 2023



Reserved Matters for development plots

Following grant of application.



