TotalEnergies

Candwr Solar Farm

Pre-Application Consultation

Environmental Statement

Appendix 5.10 Arboricultural Impact Assessment

2 July 2026









ARBORICULTURAL IMPACT ASSESSMENT

DRAFT FOR REVIEW

Candwr Solar Farm

June 2026

Barton Hyett Associates
Arboricultural Consultants

Summary table		
Site name:	Candwr Solar Farm	
Project reference:	6548	
Site address:	Land associated with Court Farm, Ponthir, Cwmbran	
Nearest postcode:	NP44 8AD	
Central grid reference:	ST 33074 93691	
Local Planning Authority:	Torfaen County Borough Monmouthshire Council	
Relevant planning policies:	Local Development Plan (expired 2021): S7 Conservation of the Natural and Historic Environment Torfaen Tree Strategy and Action Plan 2021 - 2031	
Statutory Controls:	**Tree Preservation Order**	**Conservation Area**
	Yes	No
Ancient trees/ woodlands?	***Veteran trees:*** *T59, T91, T94.* ***Ancient trees:*** *T50.* ***ANSW:*** *W1, W3, W6, W7, W10, T57, T132, T216, T217*	
Soil type: (Source: BGS online soils map © NERC 2025)	**Superficial/Drift**	**Bedrock**
	Alluvium - Clay, silt, sand and gravel	Raglan Mudstone Formation
Proposed site plan:	PEG002-PL-01.1_rev11	
Report author:	Joe Robson BSc *(Hons)*, MArborA	
Checked by:	Richard Hyett MSc, BSc (*Hons*), MICFor, MArborA	
Date of issue:	23/06/2026	

Arboricultural Association
ASSOCIATION
Professional Member
PR04402

Institute of Chartered Foresters
registered

Barton Hyett
Arboricultural Consultants

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1. INTRODUCTION

1.1. This Arboricultural Impact Assessment has been prepared by Barton Hyett Associates Ltd on behalf of Total Energies (herein referred to as "the applicant") and forms part of a suite of documents supporting a planning application for Development of National Significance (DNS) for the construction, operation, management and subsequent decommissioning of a solar farm facility on around Ponthir, Cwmbran, Wales ('the site').

1.2. This assessment considers the impact on the Arboricultural resource of the site; the Arboricultural Impact Assessment (AIA).

1.3. The scope of the instruction was to inspect trees relevant to DNS application for a solar farm at the site and provide written advice on how they inform feasibility and design options for the site. This assessment has been informed by a baseline tree survey, undertaken in accordance with the recommendations of British Standard 5837:2012 '*Trees in relation to design, demolition and construction - recommendations*'.

2. SITE DESCRIPTION

2.1. The 131.62-hectare site consists of agricultural fields grouped into 13 areas.

2.2. The site is located to the east of Cwmbran and to the north of Ponthir.

2.3. A reservoir is located in the centre of the site, outside the Red Line Boundary (RLB). A water treatment works is located to the south of the reservoir, and another is located to the south of the site. Both are outside the RLB.

2.4. Ground level undulates across the site with low levels at around 30 metres Above Ordnance Datum (AOD) and high points around 90 metres AOD.

2.5. Site areas are accessible from public highways and from adjoining fields within the RLB.

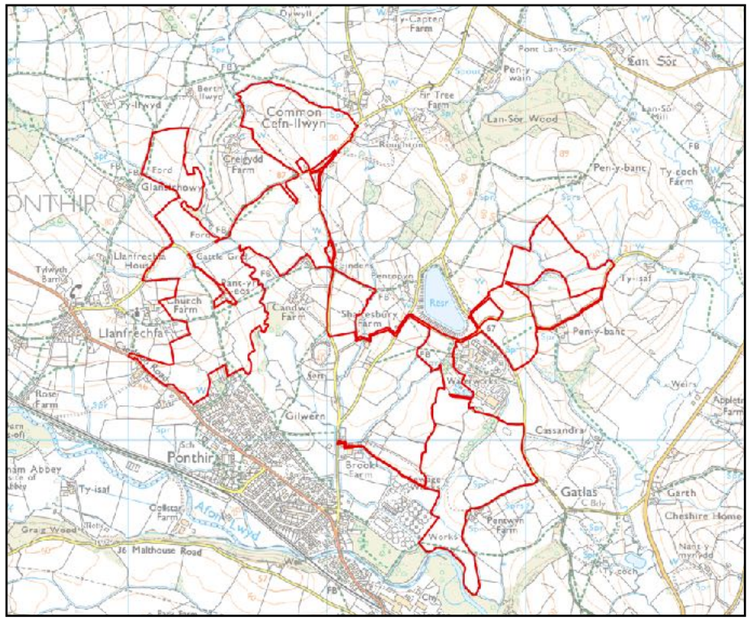


Figure 1: Red Line Boundary (Pegasus Planning Ltd June 2026).

2.6. Arboricultural features are generally restricted to field boundaries, and the site is typical of the wider landscape.

3. TREE SURVEY FINDINGS

3.1. The survey recorded 786 arboricultural features. These are summarised in terms of quality in accordance with the recommendations of BS 5837:2012 in Table 1 and shown in more detail on the Tree Survey and Constraints Plan (Section 2) and within the Tree Survey Schedule (**Section 3**).

3.2. Where it has not been possible to fully access the trees at the site, for example due to them being off-site or within dense vegetation, dimensions may have been estimated. Where this is the case, it has been highlighted within the tree survey schedules.

3.3. During the survey, a judgement has been made as to whether a tree is located within, or outside the site boundary. Again, this is highlighted within the survey schedules. Where this is the case, the judgement has been made on the presence of site features such as boundary fences, ditches, and hedges, and it does not confirm definitive ownership or otherwise.

3.4. Occasionally, trees will not have been plotted within the topographical survey but may have been plotted during the tree survey. The location of these trees will not be as accurate as those plotted in a topographic survey and should therefore not be fully relied upon - especially where precise tree location is imperative for layout design. Where this is the case, the relevant trees are highlighted within the tree survey schedule and also on the tree survey plan with an asterisk (*) adjacent to the reference number.

Table 1: arboricultural features by type and quality category.

	Total	A - High quality trees whose retention is most desirable.	B - Moderate quality trees whose retention is desirable.	C - Low quality trees which could be retained but should not significantly constrain the proposal.	U - Very poor quality trees that should be removed unless they have high conservation value.
Trees	**277**	102	126	42	7
Groups	**242**	41	143	57	1
Woodland	**11**	7	4	-	-
Hedgerows	**256**	-	174	79	3
Total	**786**	**150**	**447**	**178**	**11**

4. KEY ARBORICULTURAL FEATURES

4.1. One ancient tree and three veteran trees were recorded in the tree survey. Five Ancient Semi-Natural Woodlands (ASNW) were recorded, and four trees were recorded individually within these woodlands and assigned ASNW status.

4.2. Planning Policy Wales describes such features as irreplaceable natural resources which provide significant landscape, biodiversity, and cultural value.

4.3. No specific Standing Advice applies in Wales in relation to buffer zones around ancient trees, veteran trees, and Ancient Semi-Natural Woodland (ASNW), and so Standing Advice from Natural England has been applied. In accordance with this Standing Advice, a buffer 15 times the diameter of the stem has been applied to all ancient and veteran trees, and a 20-metre buffer (five metres more than the minimum) has been applied to all ASNW.

4.4. Category **A3** ancient oak, T50, is located in the northwest of the site in area 7A. The tree is growing in a field boundary within category **B** group, G43, and has been assigned 'Ancient' status owing to its particularly large stem diameter; 2000mm diameter at breast height, suggesting great age[1].

4.5. Veteran oaks T50, T59, T91, and veteran ash, T94, were assigned category **A3**. These trees have stem diameters ranging from 1500mm - 1800mm and have multiple features associated with great age which provide distinct habitat features.

4.6. Five Ancient Semi-Natural Woodland (ASNW) were identified using the Ancient Woodland Inventory hosted by Natural Resource Wales and recorded in the tree survey. A woodland is defined as ASNW when it has persisted since at least the year 1600. DEFRA data was collated by cross-referencing aerial imagery with historic maps to identify such woodlands. All five ASNWs; W1, W3, W6, W7 and W10 were assigned category **A3** and a 20-metre buffer was applied from the woodland (not the canopy) edge. Four individual trees were recorded within ASNWs and were assigned ASNW status; T57 (within W1), T132 (within W3), T216 and T217 (within W7). These trees were recorded individually owing to being distinct in some way. Accordingly, they were assigned varying quality categories but remain irreplaceable natural resources in accordance with Planning Policy Wales.

4.7. The site includes land within both Torfaen County Borough and Monmouthshire Council jurisdictions. Tree Preservation Orders (TPOs) protect some trees, groups of trees and woodlands across the site. Trees protected by TPOs are shown with black hatching through the crowns on the Tree Survey and Constraints Plan and Tree Retention, Removal and Protection Plan, and TPO status is detailed in the Survey Schedule. TPO enquiries were made to both LPAs with responses received on the 24th June 2025 from Monmouthshire Council and on the 23rd October 2025 from Torfaen County Borough Council. TPO information was provided as screenshots on annotated OS maps. These appeared to frequently overlap, suggesting that the LPAs share TPO data, or that there have been historic changes in boundaries. Care was taken to match the annotated OS plans with the Tree Survey and Constraints Plan to accurately show which recorded trees and woodlands are protected by TPOs. A full list of trees believed to be protected by TPOs is as follows: T52, T53, T93, T94, T96, T99, T100, T105, T106, T107, T108, T111, T113, T117, T118, T119, T120, T122, T124, T125, T128, T129, T130, T131, T132, T135, T227, T229, T232, T233, T234, T235, T236, T238, T239, T240, G98, G108, G112, G115, G121, G124, G127, G207, G216, G233, G235 and W3.

4.8. The site is not within a Conservation Area.

4.9. The site benefits from a relatively high proportion of high-quality mature trees, most of which are growing on field boundaries. Veteran tree, T91, and high-quality trees, T89 and T90, are some of the few open-grown mature trees on-site.

5. PROPOSED DEVELOPMENT

5.1. The development proposal is for a solar farm with sub-stations, underground cabling, site roads, haul road and other ancillaries. The proposed site layout is shown on the proposed site plan PEG002-PL-01.1_rev11 (as amended and submitted). A detailed description of the proposed development can be found in the planning statement that accompanies the application.

6. IMPACT ASSESSMENT

6.1. The impact assessment considers the effects of any tree loss required to implement the proposed development as well as any reasonably foreseeable, potentially damaging activities proposed in the vicinity of retained trees. This is undertaken with reference to BS 5837:2012 and considering the nature of the proposed development. Actual and potential impacts can include tree removal to facilitate the development, soil compaction in close proximity to trees, and direct impact damage to the canopy and roots of retained trees from construction activities. A summary of anticipated impacts resulting from the proposed development is provided below.

Trees to be removed

6.2. Whilst the arboricultural constraints identified have been used in preparation of the proposed site layout, some removal of vegetation will still be needed to allow the proposed development to be implemented. Through the iterative design process this removal has been minimised as far as possible.

Table 2: summary of proposed removals of each BS 5837:2012 quality category

	Total	A - High quality trees whose retention is most desirable.	B - Moderate quality trees whose retention is desirable.	C - Low quality trees which could be retained but should not significantly constrain the proposal.	U - Very poor quality trees that should be removed unless they have high conservation value.
Trees	**3**	-	1	2	-
Groups	**6**	1	3 (Sections only)	2 (Sections only)	-
Hedgerows	**27**	-	18 (Sections only)	9 (Sections only)	-
Total	**36**	**1**	**1**	**2**	**-**

[1] *Ancient and other veteran trees. Lonsdale. 2013. Fig 1.3. girth table. P5.*

6.3. Three individual trees, sections of six groups of trees amounting to an estimated 22 trees, and sections of 27 hedgerows amounting to 161.5 metres are to be removed. These removals are summarised by quality category in Table 2, and shown on the Tree Retention and Removal Plan in **Section 3.**

6.4. The site is divided into fields with designated numbers and letters which can be found on site plan reference P24_2075_EN_11F LAND PARCEL PLAN EIA. Proposed removals are listed below, divided by field number across the site, starting in the northwest of the site and finishing in the northeast. Numbers of trees to be removed from tree groups have been calculated by measuring the metres squared of the group as a whole compared with the meterage squared required for removal, then applying the percentage difference to the number of trees within the group as a whole. It should be noted that this is an inference and an estimation; topographic information did not allow for exact removal numbers within tree groups to be calculated. Where possible, tree removals within will be minimised. Further detail on how these removals are to be minimised is provided in the Tree Protection Measures and Arboricultural Method Statement Heads of Terms sections of this report.

- Field **3B**: Hedgerow H20 (C2) requires a two-metre section removal to facilitate the construction of a proposed access onto the public highway.
- Field **7A**: Hedgerow H49 (B2) requires a two-metre section removal to facilitate the construction of an internal site road.
- Field **6A**: Hedgerow H57 (C2) requires a ten-metre section removal to facilitate the construction of a proposed access onto the public highway.
- Field **6B**: Hedgerow H113 (B2) requires an eleven-metre section removal to facilitate the construction of a proposed access onto the public highway.
- Field **6C**: Hedgerow H110 (B2) requires a total of 5.5 metre sections of removal to facilitate the installation of a security fence and construction of a site road. H58 (C2) requires a one metre removal to facilitate the installation of a security fence. Category C2 hazel group, G56, requires a sectional removal to facilitate the construction of a proposed site road. The proposed removal totals 104m2 of 890m2, which results in an estimated removal of two coppice stools. The proposed site road utilises an existing informal field access within the group, which is devoid of trees. Category B2 group, G59, consisting of common alder, hazel, and holly, is to have 195m2 of 3,318m2 removed to facilitate the construction of a proposed site road. This amounts to the removal of an estimated two trees.
- Field **9B**: Hedgerows H103 and H104 (B2) require three and six metre section removals, respectively, to facilitate the construction of a proposed site road.
- Field **13G**: Hedgerow H136 (B2) requires two sectional removals to facilitate proposed site roads totalling 14.5 metres.
- Field **13D**: Hedgerow H127 (B2) requires a four metre removal to facilitate the construction of a proposed site road.
- **Access to the southwest of field 13D**: A site access is to be constructed from an existing public highway, linking to field 13D. The proposed road requires the removal of sixteen metres of a managed hedgerow, H250 (B2), and seven metres of H252 (B2), an unmanaged hedgerow growing within a tree group. Two individual trees require removal: T268 oak (C2) due to being directly impacted by the proposed road and T110 (dead) cherry (C3) due to its posing a health and safety risk as a result of its proximity to the proposed road. These trees are growing within category A2 group, G112. A total of 120m2 of 1,238m2 is to be removed, which equates to an estimated removal of three trees. These removals allow for the retention of T269 (B3), which has particular ecological value.
- Field **13C**: Hedgerow H126 (B2) requires an 11.5-metre section removal to facilitate the construction of a proposed site road. Hedgerow H130 (B2) requires a four-metre removal to facilitate the construction of a proposed site road.
- Field **13B**: Hedgerow H121 (B2) requires a 6.5m section removal to facilitate the construction of a proposed site road.
- Field **4**: Hedgerow H91 (C2) requires a 5.5-metre section removal to facilitate the construction of an internal site road and Hedgerow H99 (C2) requires a 2.5-metre section removal to facilitate the construction of a site access onto a public highway.
- Field **10A**: Hedgerows H85 and H90 (C2) require sections of removal totalling 1.5 metres and six metres respectively and T77 (B1) hawthorn also requires removal to facilitate the construction of a proposed access onto a highway.
- Field **8B**: Hedgerows H200 and H201 (B2) require three and 1.5-metre section removals respectively to facilitate the construction of a site road.
- **Substation**: Hedgerow H197 (B2) requires an eighteen-metre section removal to facilitate construction of an access linking the substation with a public highway.
- Field **1C**: Sections of three hedgerows require removal to facilitate the construction of two site accesses linking to public highways; H169 (C2) requires a seven-metre removal, H170 (B2) requires a two-metre removal and H172 (B2) requires a five-metre section removal.
- Field **1B**: Hedgerow H171 (C2) requires a 3.5m section removal to facilitate a proposed access to the field and H178 (B2) requires a two-metre section removal to allow for the installation of an underground cable.
- Field **1A**: Sections of three tree groups require sectional removals to facilitate the construction of a proposed site road. These amount to an estimated removal of 15 trees from G173 five trees (B2), G174 seven trees (C2) and G175 three trees (B2).

Impacts on retained trees

6.5. Impacts to retained trees have been minimised through the iterative design process. Where impacts to retained trees are unavoidable, the severity and likely consequence has been assessed. In some instances,

this has resulted in control measures being implements and in others, impacts are so minor that control measures are unnecessary. These impacts, and any control measures, are described below.

Pruning:

6.6. Target Notes (TN) on the Tree Retention, Removal and Protection Plan (TRRP) mark areas where pruning works may be required. Such works include cutting back and crown lifting (removing branches from ground level to a given height). Pruning works should be undertaken by competent arboricultural contractors, in accordance with BS 3998 2010: Tree Work Recommendations. The trees, groups and hedgerows that will likely require pruning include:

- G155 (C2): tree group on roadside in field 11 near to existing agricultural access and proposed site access. Pruning works are to allow for safe access and egress to and from site during and post-construction.
- G161 (B2): located in field 11. Prune to allow safe use of proposed site road close to tree group.
- G165 (C2) and G166 (B2): located on field boundary between 2A and 2D. Prune lateral branches around existing agricultural access to allow safe use of proposed site road.
- H208 and H230 (B2): located in field 12D. Prune ends of hedgerow to allow for construction and ongoing use of proposed site road in existing agricultural access.

NB: this list represents the likely extent of pruning required but may not be exhaustive.

Minor impacts to Root Protection Areas

6.7. Incursions into Root Protection Areas (RPAs) of retained trees have been avoided wherever possible. Where unavoidable, incursions are either as a result of a requirement to construct a site road or access in a given location or to install an underground cable.

6.8. Where incursions are minor, for example a c.5% incursion into the periphery of RPAs already somewhat compacted by farm traffic, as is the case with G49 (C3), G165 (C2) and G166 (B2) on field boundaries between 2A and 2D where a site road is to be constructed or on the northern extremity of T271 (B3) RPA, where a sub-station building is to be constructed, no negative arboricultural impact is likely to result and no control measures are specified.

6.9. A section of G56 (C2) hazel located in field 6B. A proposed site road directly impacts G56 but is sited to utilise an existing gap thereby minimising removals and also limiting impact to retained trees. Due to this, and the nature and makeup of the group, a no-dig road is unnecessary and no negative long-term arboricultural impact is likely to result from the construction of the road by conventional means.

No-dig cellular confinement

6.10. Where incursions into RPAs to construct site roads are more significant, including where site roads directly impact tree groups, the road is to be constructed using a semi-permeable no-dig cellular confinement system. This methodology limits direct damage to roots by building up ground levels rather than down into the ground and limits compaction damage whilst the road is in use. The construction of the no-dig road within the RPAs is to be undertaken in accordance with an approved Arboricultural Method Statement (AMS) which may include an Arboricultural Watching Brief at time of installation. Collaboration between the project arboriculturist and transport consultants during the ongoing design process will ensure that the no-dig roads are of sufficient design and specification to continue to function when used by heavy plant and machinery required to complete the project.

6.11. Category A3 ASNW, W1, is located between fields 6A and 7B. A 20-metre buffer has been applied around the buffer. A site road is to be constructed to the west of the woodland within the buffer. This road is to make use of an existing agricultural access between a narrow stream. Category C3 group, G49 consists of common alder, crack willow and common ash. These trees are low quality from an arboricultural perspective but have significant habitat value owing to cavities, decay and other age-related features. Following discussions during the design process, it was decided that, both from an arboricultural and ecological perspective, utilising the existing access within the ASNW buffer rather than directly impacting and removing established trees from G49 constitutes the lowest impact. The road within the buffer is to be constructed using a no-dig methodology using a cellular confinement system in accordance with an approved AMS and following collaboration between the project arboriculturist, transport consultant and wider design team. These measures will ensure no loss or deterioration of the trees within the ASNW and this aspect of the proposal is therefore compliant with the aims of the Standing Advice that has been applied.

6.12. A section of G59 (B2) alder, hazel and holly located in field 6C requires removal to facilitate the construction of a site road. The proposed road is to be constructed using a no-dig methodology using a cellular confinement system in accordance with an approved AMS and following collaboration between the project arboriculturist, transport consultant and wider design team.

6.13. A section of category A2 group, G112, is to be removed to facilitate the construction of a proposed access linking field 13D with a public highway. This is to be constructed using a no-dig methodology using a cellular confinement system in accordance with an approved AMS and following collaboration between the project arboriculturist, transport consultant and wider design team.

6.14. Category A1 oak, T83, is located adjacent to an existing field access between fields 4 and 5. A site road is to be constructed within the RPA associated with this tree. This is to be constructed using a no-dig methodology using a cellular confinement system in accordance with an approved AMS and following collaboration between the project arboriculturist, transport consultant, and wider design team.

6.15. Category A1 oak, T240, and category B2 tree groups G211 and G215 are located to the south of field 8A and are growing either side of an existing agricultural track. This track is to be improved and extended and is to be constructed using a no-dig methodology using a cellular confinement system in accordance with an approved AMS and following collaboration between the project arboriculturist, transport consultant, and wider design team.

6.16. A site road is to be constructed to link fields 1A and 2C. This requires sectional removals from tree groups G173(B2), G174 (C2), and G175 (B2). The road is to be constructed using a no-dig methodology using a cellular confinement system through these groups to protect trees retained within the groups.

6.17. In field 2A, category B2 group, G161, RPA is impacted by a proposed site road. The road is to be constructed using a no-dig methodology using a cellular confinement system in accordance with an approved AMS and following collaboration between the project arboriculturist, transport consultant, and wider design team.

Underground cables (within main-site area)

6.18. The red line boundary includes a section of land to the southeast of field 10B. This area is included in the red line boundary to allow for the installation of underground cabling which links to a public highway. Trees were not recorded on the Tree Survey and Constraints Plan due to a lack of accessibility. The cable is to be sited a minimum of 15 metres from the stems of trees in this area; Root Protection Areas are generally capped at a 15 metre diameter under BS 5837 2012. The underground cable is to be installed in accordance with an approved Arboricultural Method Statement.

6.19. Underground cabling on site generally avoids impacting retained trees or Root Protection Areas. In some instances, impacts are unavoidable. To limit negative arboricultural impact resulting from the installation of underground cabling, a robust AMS should be drawn up. This may include the use of Horizontal Directional Drilling (HDD) to avoid roots entirely or hand digging under an arboricultural watching brief to ensure structural roots are retained. Where HDD is specified, 'launch' and 'receiver' pits will be required on either side of retained arboricultural features. These must be sited outside Root Protection Areas and buffers with an additional minimum five metres' clearance to allow for safe working use outside the protected area. There appears to be ample space to achieve this on-site and the siting of any launch and receiver pits is to be clearly set out in an approved Arboricultural Method Statement.

6.20. Arboricultural impacts resulting from the installation of underground cabling affect the following trees and groups of trees: W1 (A3 ASNW buffer), G56 (C2), G59 (B2), T83 (A1), T96 (A1), T185 (B1), G173 (B2), G174 (C2), G175(B2), G181 (B2), G188 (B2), G226 (C2), T197 (A3).

Underground cable in road (interconnecting cable and grid connection)

6.21. The proposal includes underground cabling which is to be installed into existing public highways. This cabling impacts notional Root Protection Areas associated with a number of mature trees. These RPAs should be seen as notional as it is unlikely significant roots extend beneath the existing public highways. The installation of the underground cabling within retained notional RPAs in the public highways is to be completed in accordance with an approved AMS. This AMS may include provision for an Arboricultural Watching Brief at key points when working close to large high-quality trees. The siting of underground cabling to connect to the grid is to be subject to further detailed design and may be subject to further planning applications.

Post-development pressure

6.22. The nature of the development and design choices is such that post-development pressure for pruning or health and safety works is unlikely. This is due to distances provided between solar panels and trees and the relatively low levels of traffic on-site once the development is operational. Shading from trees has been accurately modelled and assessed by site designers. The efficiency of the solar panels as a result of shading has been factored into the design. Care has been taken to ensure that no pruning works will be required to increase or maintain the efficiency of the solar panels over the lifetime of the development.

Conclusion

6.23. The proposal is feasible from an arboricultural perspective, and if carefully implemented according to an approved arboricultural method statement, there would be no or only a low potential negative impact on the retained trees. A combinedTree Retention and Removal and Tree Protection Plan is included in **Section 3**.

7. TREE PROTECTION MEASURES

7.1. The development includes site security fencing which encloses proposed solar panels and excludes most trees. As such, security fencing is to serve as tree protection fencing wherever possible and is to be installed prior to any other site works being undertaken. The phasing of this work is to be clearly set out in an approved Arboricultural Method Statement.

7.2. Some trees require further protection, either because development is proposed close to them and outside site security fencing or because they are located within site security fencing. A combination of Heras fencing (shown in blue on the Tree Retention, Removal and Protection plan) and post/pin and rope fencing (shown in orange) has been specified. Heras fencing is to be installed in accordance with Figure 3 of BS 5837 2012, as shown on the Tree Retention, Removal and Protection plan. It is to be used where it will be most efficacious and where installing it would not require further tree removal or pruning. Where Heras fencing has been judged to be unnecessary, for example, where a site road is to be built outside security fencing and in the vicinity of, but not close to, retained trees or where it has been judged to be potentially harmful, for example where a proposed road is to be constructed through an existing tree group and Heras fencing may require further removal or pruning in order to install, post and rope fencing has been specified to demarcate and identify locations where vehicles must not enter.

7.3. In my opinion, this approach demonstrates a reasonable, proportionate and deliverable approach to tree protection.

8. HEADS OF TERMS FOR AN ARBORICULTURAL METHOD STATEMENT (AMS)

8.1. BS 5837:2012 (Figure 1) recommends that detailed/technical design of tree protection and arboricultural methodologies should be resolved and finalised following the approval of the feasibility of a scheme by the Local Planning Authority.

8.2. Annex B and Table B.1 of BS 5837:2012, which are informative, advises that Arboricultural Method Statement (AMS) Heads of Terms are a sufficient level of information in order to deliver tree-related information into the planning system. The table also advises that a detailed AMS might reasonably be required as a planning condition.

8.3. A brief summary of the principles of tree protection on development sites is included in Section 7.

8.4. A draft, 'Heads of Terms' for an AMS is set out below:

- Project arboriculturist – schedule of monitoring and supervision to be agreed upon with the applicant and LPA
- Pre-commencement site meeting - to be attended by the project arboriculturist, client, site manager and other relevant parties. Project arboriculturist to ensure that all parties have copies of the tree protection plan and this report
- Tree removals and facilitation pruning - as shown on the final, approved Tree Retention and Removal Plan (TRRP)
- Erection of tree protection barriers, post and rope fencing and site security fencing which is to serve as tree protection fencing as per the final, approved, Tree Protection Plan (TPP)
- Access works - semi-permeable no-dig cellular confinement systems to be installed as per the final, approved, TPP. No plant or machinery to access areas where no-dig confinement systems are to be installed prior to its installation
- Site preparation and ground works - No access for any machinery within the fenced tree protection areas
- Main construction phase - all tree protection measures shall remain in situ and intact for the duration of the construction phase
- Installation of underground cabling within Root Protection Areas under Arboricultural Watching Brief where required
- Removal of tree protection barriers - only to occur following approval of site conditions by the project arboriculturist
- Final landscaping including tree planting.

9. CONCLUSIONS AND RECOMMENDATIONS

9.1. In conclusion, given the scale of the proposal, the arboricultural impacts of the development proposal on trees at the site are relatively minimal. Care has been taken during the design process to minimise arboricultural impacts; such impacts have been assessed, managed, and reduced throughout the iterative process.

9.2. The loss of trees can be mitigated by new landscape planting, and the retained trees can be adequately protected during construction activities to sustain their health and longevity.

9.3. A robust Arboricultural Method Statement will be required to ensure underground cabling can be installed with minimal arboricultural impact and that no-dig cellular confinement roads are of sufficient quality and specification to withstand the weights and usage required during the construction process.

9.4. This further technical design will include and require collaboration between transport engineers and the project arboriculturist.

9.5. Construction has been excluded from ancient and veteran tree buffers and from all but one Ancient Semi-Natural Woodland buffer. The impact to the buffer associated with W1 ASNW was a decision made during the design process and was made in order to limit tree removal by making use of an existing access track. The use of a no-dig cellular confinement system to construct the proposed site road within the buffer and installation of underground cabling in accordance with an approved Arboricultural Method Statement will ensure that no loss or deterioration to W1 is incurred.

9.6. A detailed AMS and finalised Tree Protection Plan will need to be produced. Where the feasibility of a scheme has been agreed upon by the Local Planning Authority, this detail can be agreed upon and submitted later as part of a pre-commencement planning condition (by agreement with the applicant).

Joe Robson

Joe Robson BSc (*Hons*), MArborA
Arboriculturist



IMAGE 1: W1 ANSW and G49 with existing access within ASNW buffer.



IMAGE 2: W1 ANSW and G49 with existing access within ASNW buffer.



IMAGE 3: T91 open grown veteran oak. Field 9A.



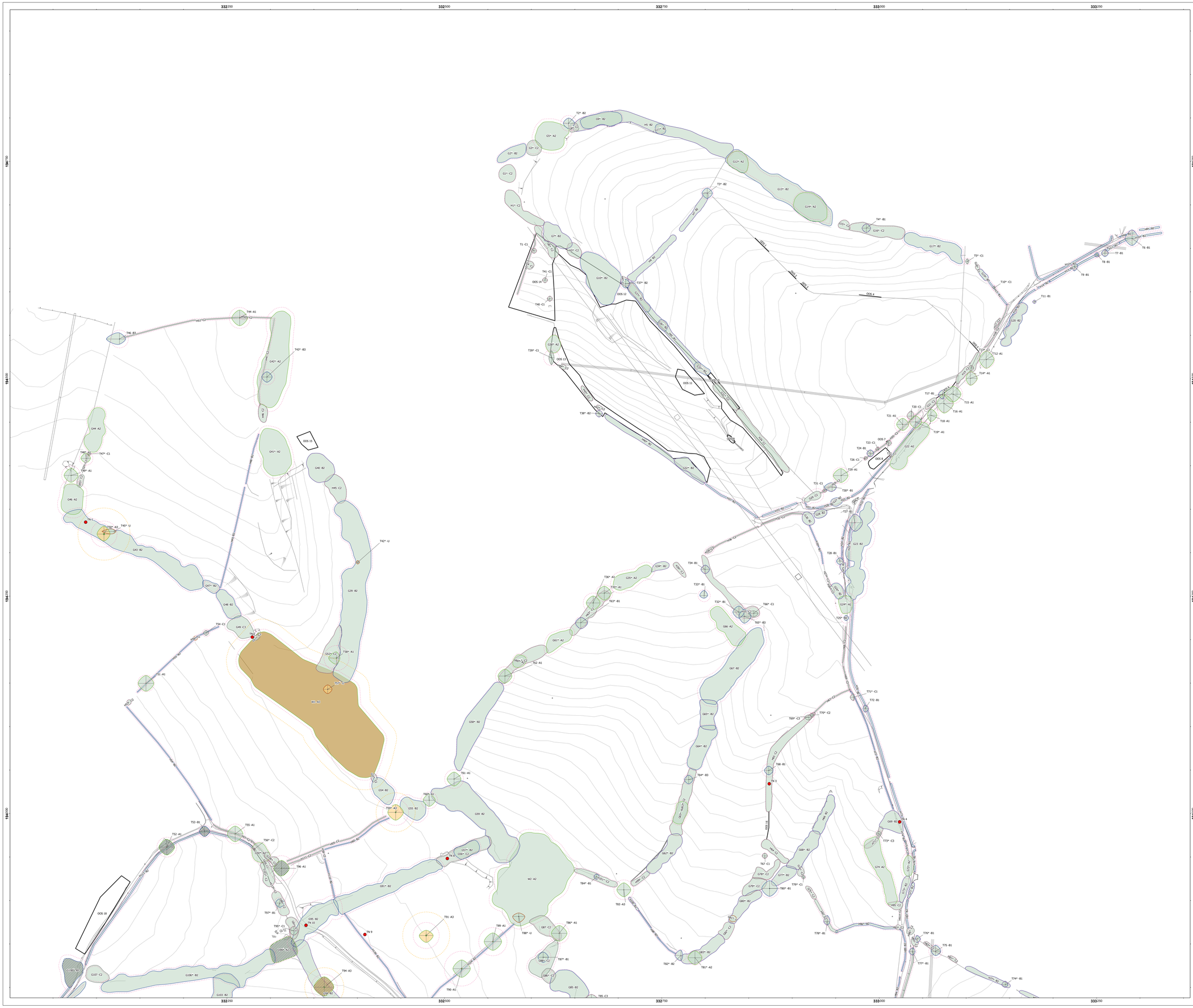
IMAGE 4: G161 and T166. Field 11.



IMAGE 5: View on field 6A.



IMAGE 6: View across field 7A facing east; typical of site and wider landscape.


332250
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194500
194250
194000
KEY
Category A Tree - High quality
(Retention highly desirable)
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(Retention highly desirable)
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(Retention desirable)
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(Retention desirable)
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Tree/Group/Hedgerow not on topographical survey. Location given is an estimate
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Ancient tree or Veteran tree: Important trees that require special consideration
Ancient and Semi-Natural Woodland
Ancient tree/woodland or Veteran tree buffer: As per published standing advice from Natural England and the Forestry Commission
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Interfield access
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Electrics station
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Informal field access between gap in hazel coppice
TN 9
Collapsed willow
TN 10
Field access over ditch
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Public footpath enters site here, plus gated field access
TN 12
Small Interfield access point c. 3m
TN 13
2 x gated field access - compacted earth
TN 14
Public footpath enters into site here via style
TN 15
Check if access road needed here - very steep down from road into private property
TN 16
Footpath entrance into reservoir park
TN 17
Field access over ditch (approx. location)
TN 18
Cannot access this tree
TN 19
Gated field access to W
TN 20
Gated field access to N
TN 21
Gated field access
TN 22
Gated field access
TN 23
Gated field access
TN 24
Land bridge over stream/ ditch
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Gated field access - compacted earth
TN 27
Fence only here (no access between fields)
TN 28
Alternative access track apparently here (next to ash on roadside)
TN 29
Hard-standing bridge over stream with gated field access
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Gated field access - compacted stone and earth
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Footpath access into field here, via bridge over stream
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Disused field gate
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Lay-by with existing gap (<1m) within hedgerow
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In-use field gate
TN 37
In-use field gate
Tree Canopy Area
Category
Total SQM
A
20920.5
B
12887.1
C
1777.1
U
496.3
Tree Group Canopy Area
Category
Total SQM
A
44128.3
B
105226
C
21471.6
U
48.1
Woodland Canopy Area
Category
Total SQM
A
68743.7
B
11585.1
Hedgerow Canopy Area
Category
Total SQM
B
43929.2
C
13230.3
U
54.3
INDEX MAP
1
2
3
4
Note: The original of this drawing was produced in colour – a monochrome copy should not be relied upon. This drawing should be interpreted with reference to the accompanying tree schedule and written advice
N
GRID NORTH
0
37.5
75
150 Meters
PROJECT TITLE
Candwr Solar Farm (6548)
DRAWING TITLE
Tree Survey and Constraints Plan
SCALE
Scale: 1:2,000 @ A1
DRAWING NUMBER
BHA_6548_01
DRAWN BY
AT
APPROVED BY
RH
REVISION
C
SHEET
1 of 4
DATE
16/04/2026
COORDINATE SYSTEM / DATUM
British National Grid / Newlyn Datum (AOD)
CLIENT
Pegasus Planning Group (Cirencester)
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Tel: 01386 576161
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enquiries@barton-hyett.co.uk


332000
332250
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332750
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194250
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193750
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G43 -B2
G47* -B2
G48 -B2
G49 -C3
T54 -C1
TN 1
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H09 -B2
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T194* -B1
G222* -C2
G223* -C2
G224* -C2
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T205 -B3
T206 -A1
W8 -B2
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005 56
005 57
005 58
005



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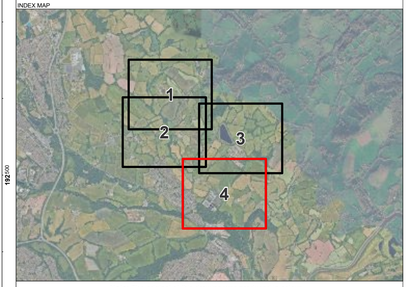
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U	54.3

INDEX MAP



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N
GRID NORTH

0 37.5 75 150 Meters

PROJECT TITLE

Candwr Solar Farm (6548)

DRAWING TITLE

Tree Survey and Constraints Plan

SCALE				DRAWING NUMBER	
Scale: 1:2,000 @ A1				**BHA_6548_01**	
DRAWN BY	APPROVED BY	REVISION	SHEET	DATE	
AT	RH	C	4 of 4	16/04/2026	

COORDINATE SYSTEM / DATUM: **British National Grid / Newlyn Datum (AOD)**

CLIENT: **Pegasus Planning Group (Cirencester)**

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Barton Hyett Associates
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Tel: 01386 576161
Address: Office 11, Unit 22 Lansdown Industrial Estate, Cheltenham, GL51 8PL

DRAWING PRODUCED BY

SUMMIT GEO

enquiries@barton-hyett.co.uk

332250 332500 332750 333000 333250

194750 194500 194250

Section 3

KEY

- Category A Tree - High quality (Retention highly desirable)
- Category A - Hedgerow, Group, Woodland - High quality (Retention highly desirable)
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Protection Measures

- Tree Protection Barrier
- Post and rope fencing
- Cellular Confinement System (see AMS report for specification)
- Perimeter Fence
- Track
- All weather information notices to read 'Construction Exclusion Zone - No Entry' A3 in size. To be attached to tree protection barriers at regular intervals
- Target Note

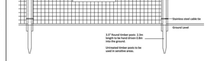
Target Notes

Label	Description	Label	Description
TN 1	Proposed no-dig road utilises existing track which is on either side of a stream making heras protection fencing unnecessary. Pin and rope fencing to be used on ASNW side of road.	TN 10	Pruning and crown lifting works required around (existing) access.
TN 2	No-dig road required to protect root protection areas of retained trees.	TN 11	Crown lifting - no felling required. Post and rope fencing to be used alongside road.
TN 3	No-dig road unnecessary due to quality and make-up of group (hazel coppice stools). Road utilises existing gap which minimises removals and further negates need for no-dig road.	TN 12	Proposed road utilises existing agricultural access. Crown lift / prune G166 one G165.
TN 4	Minor pruning required; site road to be constructed between gap in tree groups.	TN 13	No-dig road required to protect root protection areas of retained trees.
TN 5	Crown lift T96 up to 5 metres above ground level, secondary branches only. Underground cable and no-dig road to be installed in accordance with approved AMS. No-dig road only required if road requires improvement.	TN 14	Underground cabling to be installed in accordance with approved AMS.
TN 6	No-dig road required to protect root protection areas of retained trees.	TN 15	Underground cabling to be installed through G18, road and H175 in accordance with approved AMS.
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Heras on Stakes



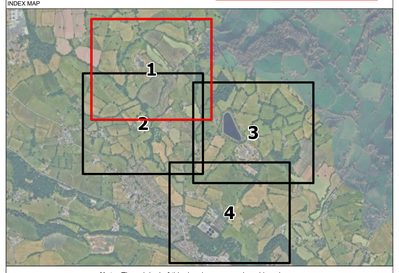
Heras panels to be attached to posts using 2 No. stainless steel cable ties, bird nut and bolt/barb. Bolt snug to the panel but allow the cable tie to be tightened to secure. Cable ties to be snipped to be inconspicuous.



Tree Protection Barrier - Barrier to be erected prior to the commencement of works on site and not to be altered or removed until works are complete (cross check with specific requirements of any relevant planning conditions).



INDEX MAP



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N
GRID NORTH

0 37.5 75 150 Meters

PROJECT TITLE

Candwr Solar Farm (6548)

DRAWING TITLE

Tree Retention, Removal and Protection Plan

SCALE			DRAWING NUMBER
Scale: 1:2,000 @ A1			BHA_6548_02
DRAWN BY	APPROVED BY	REVISION	SHEET	DATE
DB	JR	A	1 of 4	01/06/2026

COORDINATE SYSTEM / DATUM: **British National Grid / Newlyn Datum (AOD)**

CLIENT: **Pegasus Planning Group (Cirencester)**

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Address: Office 11, Unit 22 Lansdown Industrial Estate, Cheltenham, GL51 8PL

DRAWING PRODUCED BY

SUMMIT GEO

enquiries@barton-hyett.co.uk

332000 332250 332500 332750 333000 333250

194250 194000 193750 193500 193250

Section 3

KEY

- Category A Tree - High quality (Retention highly desirable)
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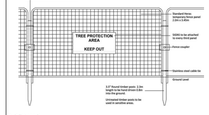
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Heras on Stakes

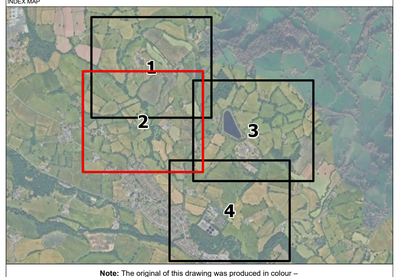




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SCALE	DRAWING NUMBER
Scale: 1:2,000 @ A1	BHA_6548_02

DRAWN BY	APPROVED BY	REVISION	SHEET	DATE
DB	JR	A	2 of 4	01/06/2026

COORDINATE SYSTEM / DATUM

British National Grid / Newlyn Datum (AOD)

CLIENT

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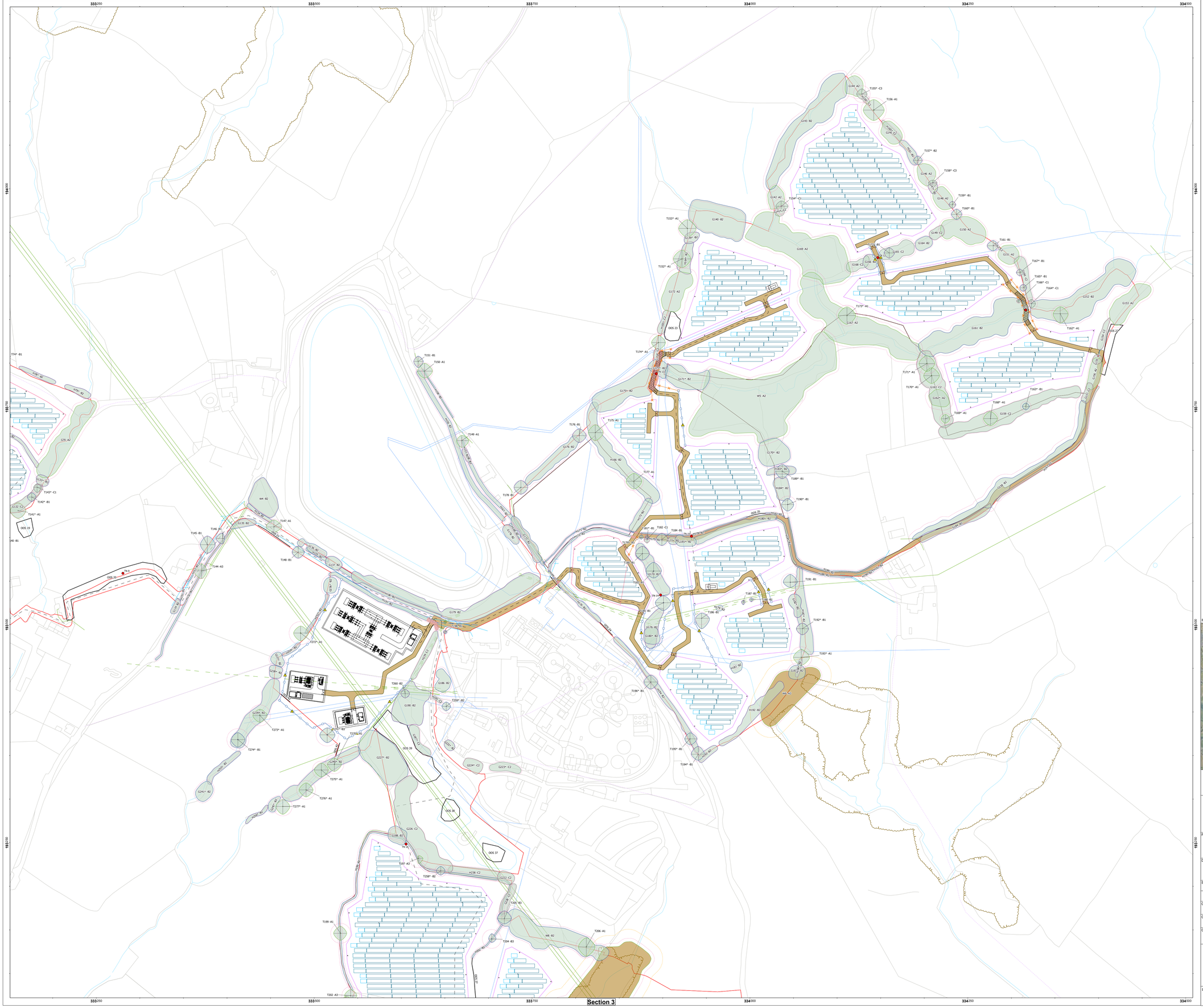
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194000 193750 193500 193250



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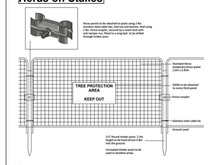
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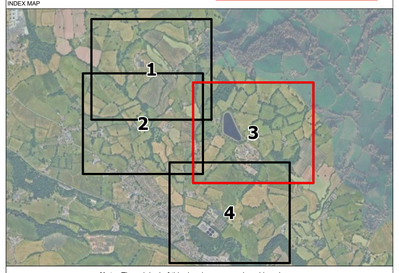
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Tree Retention, Removal and Protection Plan

SCALE				DRAWING NUMBER	
Scale: 1:2,000 @ A1				**BHA_6548_02**	
DRAWN BY	APPROVED BY	REVISION	SHEET	DATE	
DB	**JR**	**A**	**3 of 4**	**01/06/2026**	

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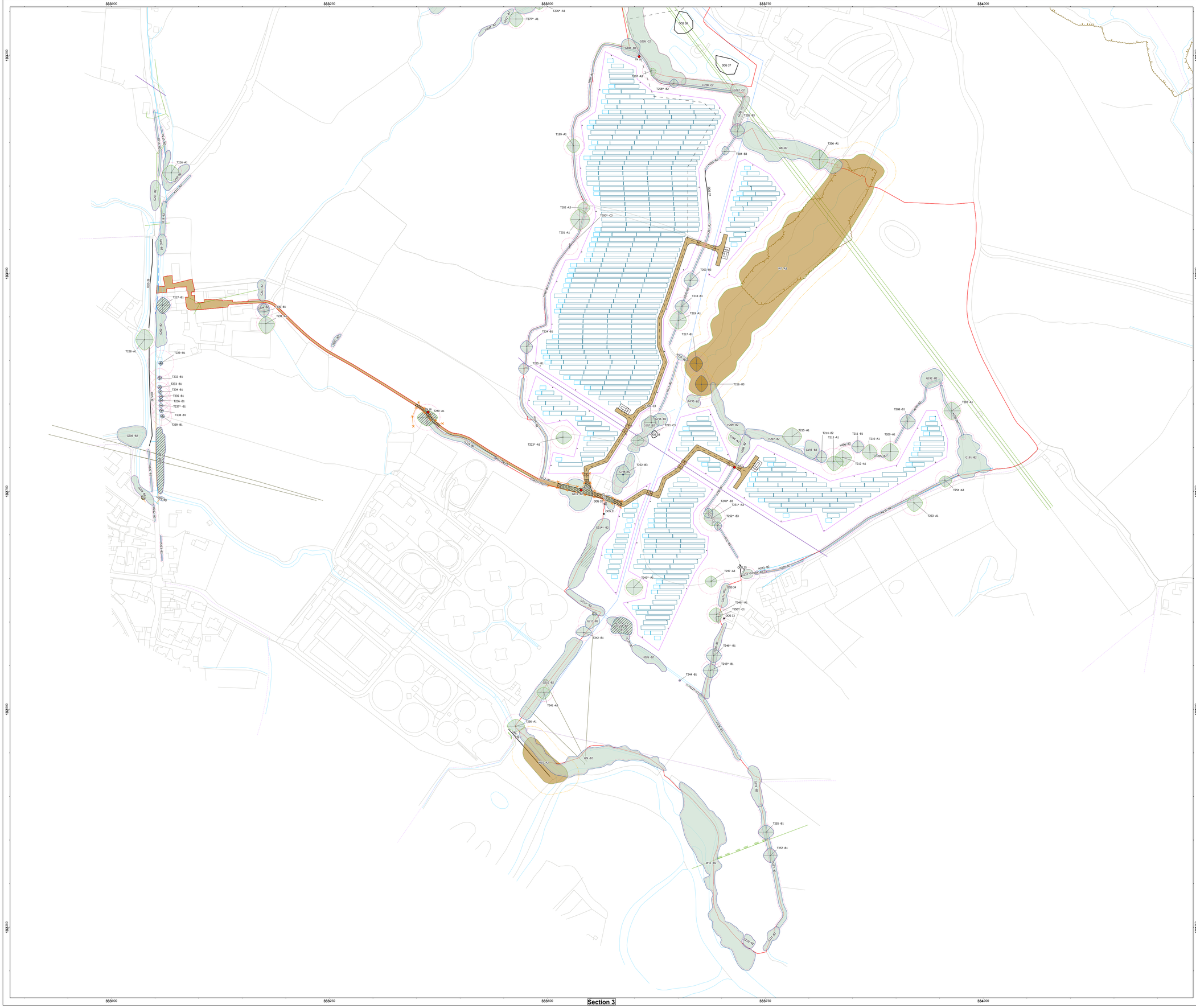
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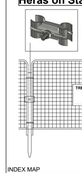
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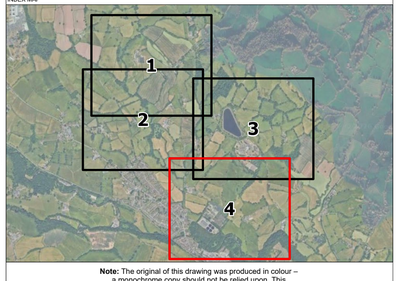
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DRAWING PRODUCED BY
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TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett
Arboricultural Consultants

INDIVIDUAL TREES

Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T1	Grey Sallow	On	5.0	6	Yes	240	3.0-3.0-3.0-3.0	0.0	0.0	N	EM	None	Multi stemmed at base with dense bramble north.	Good	Fair	20+	C1	2.9	26.0	-	None
T2*	Willow	On	23	1	None	750	6.0-7.0-6.0-6.0	2.0	0	E	M	None	Larger than others in group. Some failed branches. Ground slopes towards site.	Good	Good	20+	B2	9	254	-	None
T3*	Oak (English)	On	14	1	Yes	600	6.0-6.0-6.0-6.0	3.0	3	NE	EM	None	No significant defects.	Good	Good	40+	B2	7.2	163	-	None
T4*	Willow	Off	12	1	Yes	400	5.0-5.0-5.0-5.0	0.0	2	N	EM	None	Set back from site. Slightly larger than others in area.	Good	Fair	20+	B1	4.8	72	-	None
T5*	Alder (Common)	On	4	4	Yes	330	3.0-2.0-3.0-2.0	0.0	0	SE	EM	None	Topped at 3m with some regrowth. Growing beneath power line.	Fair	Fair	10+	C1	3.9	49	-	None
T6	Oak (English)	Off	16	1	Yes	800	10.0-7.0-8.0-8.0	6.0	4	N	EM	None	Ivy up stem. Some epicormic growth across crown. Stem is right on roadside.	Good	Good	40+	B1	9.6	290	-	None
T7	Oak (English)	Off	10	1	Yes	250	4.0-4.0-4.0-4.0	3.5	2	None	SM	None	Establishing garden tree.	Good	Good	40+	B1	3	28	-	None
T8	Poplar	Off	15	1	Yes	300	2.5-2.5-2.5-2.5	2.5	3	None	SM	None	Establishing tree will grow a lot taller.	Good	Good	20+	B1	3.6	41	-	None
T9	Oak (English)	Off	14	1	Yes	250	5.0-4.0-5.0-3.0	3.5	2	None	SM	None	Establishing garden tree. Lowest branch at 4m has been damaged by vehicles and should be pruned back.	Good	Good	40+	B1	3	28	-	None
T10*	Ash (Common)	On	7	2	Yes	250	2.0-1.0-1.0-2.0	2.0	1.5	W	SM	None	Some reduced vitality.	Fair	Fair	10+	C1	3	28	-	None
T11	Maple (Norway 'Crimson King')	Off	7	1	Yes	150	2.0-2.0-2.0-2.0	1.0	1	None	SM	None	Establishing garden tree.	Good	Good	20+	B1	1.8	10	-	None
T12	Oak (English)	Off	18	1	Yes	800	10.0-9.0-10.0-8.0	5.0	3	None	M	None	High quality roadside tree. Cavity in stem at 2.5m; where limb has been pruned historically. Well-occluded; internal; vertical split in stem up to 2m.	Good	Good	40+	A1	9.6	290	-	None

** tree location approximate*

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T13*	Ash (Common)	On	12	6	Yes	220	3.0-3.0-3.0-3.0	3.0	3	N	EM	None	Multi stemmed at base. Dense bramble at base and in lower crown.	Good	Fair	10+	C1	2.6	22	-	None
T14*	Oak (English)	Off	15	1	Yes	600	8.0-8.0-8.0-5.0	3.0	3	E	M	None	High quality tree off site on roadside. Canopy 5m ht over road.	Good	Good	40+	A1	7.2	163	-	None
T15	Oak (English)	Off	18	1	Yes	900	9.0-9.0-9.0-10.0	3.0	3	E	M	None	High quality tree off site on roadside. Tree was recorded in survey because crown extends into site.	Good	Good	40+	A1	10.8	366	-	None
T16	Oak (English)	Off	17	1	Yes	820	10.0-11.0-11.0-8.0	5.0	3	None	M	None	High quality tree off site on roadside.	Good	Good	40+	A1	9.8	304	-	None
T17	Maple (Field)	On	10	1	Yes	450	5.0-2.0-5.0-5.0	2.0	1.5	SW	M	None	Minor cavity in scaffold limb at 1.5m. Ivy clad stem and crown. Managed over roadside.	Good	Fair	20+	B1	5.4	92	-	None
T18	Oak (English)	Off	13	1	Yes	750	7.0-7.0-7.0-4.0	3.0	3	E	M	None	High quality tree off site on roadside.	Good	Good	40+	A1	9	254	-	None
T19*	Oak (English)	Off	18	1	Yes	750	7.0-7.0-7.0-7.0	2.0	4	E	M	None	High quality tree in private garden. Measurements estimated.	Good	Good	40+	A1	9	254	-	None
T20	Ash (Common)	On	12	1	None	400	6.0-3.0-4.0-5.0	2.0	2	N	EM	None	Asymmetric crown due to suppression from larger trees and stub cute. Suppressed form. Ivy clad stem. Some reduced vitality.	Fair	Fair	10+	C1	4.8	72	-	None
T21	Oak (English)	Off	18	1	Yes	800	7.0-7.0-7.0-7.0	2.0	4	E	M	None	Growing out of hedgerow on boundary with private garden - ownership unclear.	Good	Good	40+	A1	9.6	290	-	None
T22	Apple	Off	9	1	Yes	300	3.0-3.0-3.0-3.0	2.0	3	NW	EM	None	Growing in private garden. Stem wound with associated decay.	Good	Fair	10+	C1	3.6	41	-	None
T23	Apple	Off	6	1	Yes	200	3.0-1.0-1.0-3.0	2.0	1.5	SE	EM	None	Growing in private garden. Out of hedgerow.	Fair	Fair	10+	C1	2.4	18	-	None
T24	Maple (Field)	Off	8	2	Yes	350	4.0-4.0-4.0-4.0	3.0	4	NW	EM	None	Growing in private garden. Twin stem at 0.5m.	Good	Fair	20+	B1	4.2	55	-	None
T25*	Ash (Common)	On	13	8	Yes	510	3.0-3.0-3.0-3.0	4.0	1	S	EM	None	Multi stemmed at base. Holly at base.	Good	Fair	20+	B2	6.1	118	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T26	Apple	Off	4	1	Yes	100	2.0-3.0-2.0-1.0	2.0	1.5	N	EM	None	Growing in private garden.	Good	Fair	10+	C1	1.3	5	-	None
T27	Ash (Common)	Off	16	1	Yes	750	10.0-9.0-10.0-7.0	5.0	5	None	M	None	Pruned back from roadside. Much epicormic growth and very vigorous across crown. No significant visible defects. High B.	Good	Good	20+	B1	9	254	-	None
T28	Cypress (Lawson)	Off	12	3	Yes	450	4.0-4.0-4.0-4.0	1.5	1	N	SM	None	Estimated from road only.	Good	Good	20+	B1	5.4	92	-	None
T29	Oak (English)	Off	18	1	Yes	800	8.0-8.0-8.0-9.0	2.0	4	E	M	None	Growing in private garden. Measurements estimated.	Good	Good	40+	A1	9.6	290	-	None
T30*	Maple (Norway 'Crimson King')	Off	8	1	Yes	400	5.0-5.0-5.0-9.0	2.5	2	W	EM	None	Garden tree. Measurements estimated.	Good	Good	20+	B1	4.8	72	-	None
T31	Hawthorn	Off	5	4	Yes	150	2.0-3.0-2.0-2.0	2.0	2	E	EM	None	Multi stemmed at base. Ivy clad.	Fair	Fair	10+	C1	1.8	10	-	None
T32*	Sycamore	On	16	1	Yes	750	7.0-6.0-7.0-7.0	5.0	0	N	M	None	Basal growth has been recorded as branches rather than stems. Included union on stem at c.3m.	Good	Fair	20+	B1	9	254	-	None
T33*	Ash (Common)	On	14	3	Yes	580	6.0-4.0-3.0-5.0	3.0	3	NW	M	None	Multi stemmed at base.	Good	Fair	20+	B1	7	152	-	None
T34	Maple (Field)	On	14	1	Yes	350	5.0-5.0-5.0-5.0	4.0	3	E	M	None	Bifurcated at 1.5m - DBH measured below. Some old wounds in crown but overall good condition.	Good	Good	20+	B1	4.2	55	-	None
T35*	Oak (English)	On	18	1	Yes	800	8.0-8.0-8.0-8.0	4.0	2.5	N	M	None	High quality mature oak. Set back from site behind dense holly - measurements estimated.	Good	Good	40+	A1	9.6	290	-	None
T36*	Oak (English)	On	20	1	Yes	950	8.0-8.0-8.0-8.0	4.0	2.5	N	M	None	High quality mature oak. Set back from site behind dense holly - measurements estimated.	Good	Good	40+	A1	11.4	408	-	None
T37*	Ash (Common)	On	12	3	None	550	5.0-5.0-5.0-5.0	2.0	3	S	EM	None	Multi stemmed at 1m.	Good	Good	20+	B2	6.6	137	-	None

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CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T38*	Ash (Common)	Off	10	1	Yes	300	4.0-4.0-4.0-4.0	2.0	2	W	EM	None	Set back from site with dense bramble site side - measurements estimated.	Good	Good	20+	B2	3.6	41	-	None
T39*	Oak (English)	Off	12	1	Yes	750	8.0-3.0-8.0-3.0	0.0	0	S	EM	None	Dense bramble site side. Measurements estimated. Southern stem has collapsed. Growing close to power line.	Good	Fair	10+	C1	9	254	-	None
T40	Grey Sallow	On	5	6	Yes	220	3.0-3.0-3.0-3.0	0.0	0	N	EM	None	Multi stemmed at base with dense bramble north.	Good	Fair	20+	C1	2.6	22	-	None
T41	Willow (Goat)	On	5	6	Yes	220	3.0-3.0-3.0-3.0	0.0	0	N	EM	None	Multi stemmed at base. One collapsed stem.	Good	Fair	20+	C1	2.6	22	-	None
T42*	Alder (Common)	Off	16	1	Yes	500	2.0-2.0-2.0-2.0	1.0	1	W	EM	None	Dead tree weighted towards site.	Poor	Poor	<10	U	6	113	-	None
T43*	Oak (English)	Off	13	1	Yes	750	6.0-6.0-6.0-6.0	5.0	3	W	M	None	Reduced vitality. Deadwood throughout crown. Gaps in crown. Crown appears to be retrenching.	Fair	Fair	20+	B3	9	254	-	None
T44	Oak (English)	On	18	1	Yes	1000	9.0-9.0-9.0-9.0	5.0	3	SW	M	None	Large mature oak with some dead wood and minor gaps in crown.	Good	Good	20+	A1	12	452	-	None
T45*	Alder (Common)	Off	12	1	Yes	250	2.0-2.0-2.0-14.0	10.0	10	E	EM	None	Dead tree weighted towards site.	Poor	Poor	<10	U	3	28	-	None
T46	Oak (English)	Off	13	1	Yes	850	7.0-7.0-6.0-15.0	5.0	4	S	M	None	Reduced vitality. Deadwood throughout crown. Gaps in crown. Minor cavities in crown. Potential for habitat value.	Fair	Fair	20+	B3	10.2	327	-	None
T47*	Hawthorn	Off	6	2	Yes	220	2.0-2.0-2.0-2.0	2.0	2	W	M	None	Multi stemmed with basal growth. Deadwood and reduced vitality throughout	Fair	Fair	10+	C1	2.6	22	-	None
T48*	Oak (English)	On	15	1	Yes	650	6.0-5.0-5.0-6.0	4.0	2.5	W	M	None	Crown lifted site side with stubs. Minor deadwood and minor reduced vitality.	Fair	Good	20+	A1	7.8	191	-	None
T49*	Oak (English)	On	20	1	Yes	900	8.0-8.0-8.0-8.0	5.0	5	N	M	None	On far side of track; off-site. Large tree.	Good	Good	40+	A1	10.8	366	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

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SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T50*	Oak (English)	Off	18	1	Yes	2000	9.0-7.0-8.0-8.0	6.0	5	NE	LM	Ancient	Very large stem partly owing to burrs. Relatively squat form. Ditch to north separates tree from site. Stem exceeds 5m DBH tape. Some deadwood but overall good condition.	Good	Good	40+	A3	15	707	30	None
T51	Oak (English)	On	16	1	Yes	800	9.0-9.0-9.0-9.0	4.0	3	W	M	None	Good quality oak. Crown lifted site site with stub cuts.	Good	Good	40+	A1	9.6	290	-	None
T52	Oak (English)	Off	16	1	Yes	950	9.0-9.0-9.0-9.0	3.0	4	W	M	None	TPO T62 Monmouthshire. High quality mature oak. Tarmac road to east.	Good	Good	40+	A1	11.4	408	-	Yes
T53	Ash (Common)	Off	16	1	Yes	600	6.0-6.0-6.0-6.0	3.0	4	E	M	None	TPO T63 Monmouthshire. Off site roadside ash. Ivy clad stems recorded due to being located opposite site entrance.	Good	Good	20+	B1	7.2	163	-	Yes
T54	Maple (Field)	On	10	3	Yes	370	3.0-3.0-3.0-3.0	4.0	4	N	EM	None	Multi stemmed at base with some decay and mechanical damage to base and stems. Gaps in crown.	Fair	Fair	10+	C1	4.4	62	-	None
T55	Oak (English)	Off	18	1	Yes	950	9.0-9.0-9.0-9.0	4.0	4	W	M	None	High quality mature oak. Tarmac track to west.	Good	Good	40+	A1	11.4	408	-	None
T56*	Holly	On	5	2	Yes	140	1.0-1.0-1.0-1.0	1.0	1	N	SM	None	Growing out of hedgerow.	Good	Fair	10+	C2	1.7	9	-	None
T57*	Willow (Crack)	Off	20	1	Yes	600	5.0-5.0-5.0-5.0	10.0	10	W	M	ASNW	Tall; prominent dead tree in woodland.	Poor	Poor	<10	U	7.2	163	10	None
T58*	Willow (Crack)	On	25	1	None	1200	7.0-4.0-7.0-9.0	3.0	1	W	M	None	Large stem with asymmetric crown.	Good	Good	20+	A1	14.4	651	-	None
T59*	Oak (English)	Off	16	1	Yes	1500	9.0-9.0-9.0-9.0	4.0	3	S	LM	Veteran	Large stem bifurcated at 1.75m. Good quality oak. Old wound on stem east where stem has failed some time ago. Associated decay does not appear to be progressing. Cavities in crown. Epicormic growth on inner crown suggests retrenchment. Significant age and associated features make for high biodiversity value and veteran status.	Good	Fair	20+	A3	15	707	22.5	None

** tree location approximate*

TREE SURVEY SCHEDULE

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CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T60*	Oak (English)	Off	25	1	Yes	800	7.0-7.0-7.0-7.0	6.0	3	E	M	None	Good quality oak.	Good	Good	40+	A1	9.6	290	-	None
T61	Oak (English)	On	20	1	Yes	900	8.0-8.0-8.0-8.0	4.0	2	N	M	None	High quality mature oak. Off site - measurements and location estimates.	Good	Good	40+	A1	10.8	366	-	None
T62	Oak (English)	On	17	1	Yes	900	8.0-8.0-8.0-8.0	4.0	2.5	N	M	None	High quality mature oak.	Good	Good	40+	A1	10.8	366	-	None
T63*	Oak (English)	On	14	1	Yes	550	6.0-8.0-7.0-6.0	4.0	2	SE	EM	None	Asymmetric crown with gaps north.	Good	Good	40+	B1	6.6	137	-	None
T64*	Oak (English)	On	13	1	Yes	500	5.0-5.0-5.0-5.0	4.0	1.5	N	EM	None	Minor cavity at crown break with habitat potential. Growing in depressed ground.	Good	Fair	20+	B3	6	113	-	None
T65*	Oak (English)	On	20	1	Yes	800	8.0-8.0-8.0-6.0	10.0	4	NE	M	None	Large open cavity in base with bees nest - measurements estimated. Ivy clad stem and crown. Habitat potential.	Good	Fair	20+	B3	9.6	290	-	None
T66*	Willow (Goat)	On	10	1	Yes	600	3.0-5.0-4.0-6.0	4.0	2.5	NW	M	None	Some failed branches have left an asymmetric crown. Some deadwood in crown.	Fair	Fair	10+	C1	7.2	163	-	None
T67	Ash (Common)	On	8	1	None	280	3.0-3.0-3.0-3.0	3.0	2.5	SE	SM	None	Mechanical damage to stem and crown.	Fair	Fair	10+	C1	3.3	35	-	None
T68	Ash (Common)	On	14	10	None	630	5.0-5.0-5.0-5.0	4.0	2	W	EM	None	Multi stemmed at base; growing out of hedgerow.	Good	Fair	20+	B1	7.6	180	-	None
T69*	Oak (English)	On	6	1	Yes	500	3.0-3.0-3.0-5.0	2.0	2	W	M	None	Growing in hedgerow. Ivy clad stem. Cavities and deadwood in crown. Habitat potential.	Fair	Fair	10+	C3	6	113	-	None
T70*	Maple (Field)	On	7	2	Yes	230	2.0-2.0-2.0-2.0	2.0	2	N	SM	None	Growing out of hedgerow.	Good	Fair	10+	C2	2.8	24	-	None
T71*	Ash (Common)	On	8	3	Yes	320	4.0-1.0-4.0-4.0	2.0	1	W	EM	None	Growing next to telegraph pole.	Fair	Fair	10+	C1	3.8	46	-	None
T72	Hawthorn	Off	7	1	Yes	350	4.0-4.0-4.0-2.5	3.0	2	None	M	None	Cut back from road. Minor lifting needed.	Good	Good	20+	B1	4.2	55	-	None
T73*	Hawthorn	On	8	1	Yes	350	3.0-3.0-3.0-3.0	2.0	2	S	M	None	Ivy clad stem. Decay in stem and upper crown.	Fair	Fair	10+	C3	4.2	55	-	None
T74*	Hawthorn	On	6	1	Yes	300	4.0-3.0-3.0-4.0	2.0	2	W	M	None	Growing out of hedgerow. Ivy clad stem.	Good	Fair	20+	B1	3.6	41	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

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Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T75	Ash (Common)	On	18	2	Yes	650	7.0-6.0-5.0-5.0	4.0	5	N	M	None	Holly at base. Crown lifted and cut back from power lines.	Good	Fair	20+	B1	7.8	191	-	None
T76*	Willow (Goat)	Off	10	3	Yes	370	4.0-4.0-4.0-2.0	3.0	2	SE	M	None	Three x stems at 1m.	Good	Good	20+	B1	4.4	62	-	None
T77*	Hawthorn	On	6	1	Yes	380	4.0-3.0-4.0-4.0	2.0	2	W	M	None	Roadside tree growing out of hedgerow.	Good	Fair	20+	B1	4.5	65	-	None
T78*	Ash (Common)	Off	16	2	Yes	360	7.0-3.0-4.0-4.0	4.0	2	N	EM	None	Twin stem at base. Minor deadwood in crown.	Fair	Fair	20+	B1	4.3	59	-	None
T79*	Hazel (Common)	On	5	6	Yes	220	2.0-2.0-2.0-2.0	1.0	0.5	S	M	None	Hazel coppice.	Good	Fair	10+	C1	2.6	22	-	None
T80*	Oak (English)	Off	18	1	Yes	900	9.0-9.0-9.0-9.0	6.0	6	NW	M	None	Off site. Dense bramble site side. Measurements and location estimated. Reduced vitality.	Fair	Fair	20+	B1	10.8	366	-	None
T81*	Willow (Crack)	On	19	1	Yes	700	8.0-8.0-8.0-8.0	8.0	6	N	M	None	Larger than other trees in group. Some failed branches in crown - typical of species.	Good	Good	20+	A2	8.4	222	-	None
T82*	Oak (English)	On	12	1	None	550	6.0-2.0-6.0-7.0	2.0	2	NW	EM	None	Suppressed due to group.	Good	Good	40+	B2	6.6	137	-	None
T83	Oak (English)	On	16	1	None	950	8.0-8.0-8.0-8.0	4.0	2	SW	M	None	High quality mature oak. Some cavities in crown with all potential habitat value.	Good	Good	40+	A3	11.4	408	-	None
T84*	Oak (English)	Off	10	1	Yes	300	3.0-3.0-3.0-3.0	3.0	1	E	SM	None	No significant defects.	Good	Good	40+	B1	3.6	41	-	None
T85	Ash (Common)	On	18	2	Yes	810	10.0-10.0-10.0-10.0	4.0	3	W	M	None	Significant ash dieback c. 75% of crown;with epicormic regrowth.	Fair	Good	10+	C3	9.7	297	-	None
T86*	Oak (English)	Off	20	1	Yes	950	9.0-9.0-9.0-9.0	6.0	6	NE	M	None	Good quality off site oak separated from site by ditch.	Good	Good	40+	A1	11.4	408	-	None
T87*	Ash (Common)	On	15	1	None	750	6.0-6.0-6.0-6.0	3.0	5	N	M	None	Possible early signs of ash dieback but overall good condition.	Fair	Good	20+	B1	9	254	-	None
T88*	Ash (Common)	On	14	1	Yes	700	4.0-7.0-7.0-7.0	4.0	4	S	M	None	Stage 4 ash dieback.	Poor	Poor	<10	U	8.4	222	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

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T89	Oak (English)	On	24	1	None	1300	10.0-10.0-10.0-10.0	3.0	3	SE	M	None	Very high quality large oak. Land does not appear to have been ploughed.	Good	Good	40+	A1	15	707	-	None
T90	Oak (English)	On	26	1	None	1600	10.0-10.0-10.0-10.0	3.0	3	SE	M	None	Very high quality large oak. Land does not appear to have been ploughed.	Good	Good	40+	A1	15	707	-	None
T91	Oak (English)	On	14	1	None	1800	6.0-8.0-8.0-8.0	2.0	3	W	LM	Veteran	Significant age. Retrenched crown; c.50% dead. Major deadwood in crown. Ground around tree does not appear to have been ploughed. Significant habitat value.	Poor	Fair	20+	A3	15	707	27	None
T92	Maple (Field)	On	10	1	Yes	550	7.0-5.0-5.0-8.0	3.0	2	W	EM	None	T71 TPO Monmouthshire. Large for species. High future potential.	Good	Good	40+	A1	6.6	137	-	None
T93	Ash (Common)	On	18	1	Yes	1200	10.0-12.0-14.0-7.0	2.0	3	S	LM	None	T70 TPO Monmouthshire. Veteran characteristics but not as impressive as neighbouring tree. Long sweeping branches that hang low to the ground. Deadwood and cavities.	Good	Good	40+	A3	14.4	651	-	Yes
T94	Ash (Common)	On	19	1	None	1500	12.0-11.0-10.0-12.0	3.0	3	W	LM	Veteran	T69 TPO Monmouthshire. Large tree with large stem diameter. Large wound at base of stem to NE with large deafwood volumes. Bifurcates to two >meter wide stems at 2 meters. Many limbs have been shortened or lost in storms. Some branch dieback throughout exterior crown; likely being impacted by ash dieback disease but may also be retrenchment process or a combination of the two. Epicormic growth throughout crown but not exaggerated in a way that indicates high stress.	Good	Good	40+	A3	15	707	22.5	Yes
T95*	Ash (Common)	On	13	1	None	430	5.0-5.0-5.0-5.0	3.0	5	W	EM	None	Some reduced vitality - potential ash dieback.	Fair	Fair	10+	C1	5.2	84	-	None

** tree location approximate*

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Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T96	Oak (English)	Off	18	1	Yes	1200	9.0-9.0-9.0-9.0	4.0	6	N	M	None	TPO T65 Monmouthshire. High quality mature oak.	Good	Good	40+	A1	14.4	651	-	Yes
T97*	Maple (Field)	On	10	1	None	550	5.0-5.0-5.0-5.0	2.0	3	S	M	None	No significant defects.	Good	Good	20+	B1	6.6	137	-	None
T98	Oak (English)	On	19	1	Yes	900	9.0-9.0-9.0-9.0	7.0	8	E	M	None	Within dense bramble clad group. Large tree with high future potential.	Good	Good	40+	A1	10.8	366	-	None
T99	Redwood (Giant)	Off	20	1	Yes	1000	6.0-4.0-6.0-5.0	2.0	5	None	M	None	TPO T23 Monmouthshire. Garden tree.	Good	Good	40+	A1	12	452	-	Yes
T100*	Oak (English)	Off	20	1	Yes	850	10.0-10.0-10.0-10.0	5.0	5	N	M	None	T60 TPO Monmouthshire. Large oak observed from road.	Good	Good	40+	A1	10.2	327	-	Yes
T101	Beech (Copper)	On	9	1	Yes	430	4.0-4.0-4.0-4.0	3.0	2.5	None	EM	None	Establishing churchyard tree on corner of church land.	Good	Good	40+	A1	5.2	84	-	None
T102	Ash (Common)	Off	14	1	None	400	4.0-4.0-4.0-4.0	5.0	1.5	None	EM	None	Growing on bank on south side of road (1m from edge of road).	Good	Good	20+	B1	4.8	72	-	None
T103	Ash (Common)	On	10	1	None	250	3.0-3.0-3.0-3.0	4.0	3.5	SE	SM	None	Within hedgerow. Only slightly more defined as a tree than others within hedgerow.	Good	Good	20+	C1	3	28	-	None
T104	Maple (Field)	On	12	1	None	500	7.0-7.0-7.0-7.0	4.0	3	SE	EM	None	Large tree for species.	Good	Good	40+	A1	6	113	-	None
T105	Ash (Common)	On	15	1	Yes	750	8.0-8.0-8.0-10.0	4.5	5	W	EM	None	T55 TPO Monmouthshire. Spreading canopy; makes up larger linear arb feature within landscape.	Good	Good	40+	B1	9	254	-	Yes
T106	Sycamore	On	15	1	Yes	650	6.0-6.0-6.0-6.0	4.5	5	W	EM	None	TPO T54 Monmouthshire. Ivy clad tree; forms larger linear feature within landscape.	Good	Good	40+	B1	7.8	191	-	Yes
T107	Oak (English)	On	18	1	Yes	1000	8.0-9.0-10.0-9.0	4.0	3.5	W	M	None	TPO T53 Monmouthshire. Impressive tree; prominent with high future potential.	Good	Good	40+	A1	12	452	-	Yes
T108	Oak (English)	On	15	1	Yes	750	6.0-6.0-6.0-6.0	4.5	5	N	EM	None	TPO T56 Monmouthshire. Becoming Ivy clad.	Good	Good	40+	B1	9	254	-	Yes
T109	Oak (English)	On	12	1	Yes	750	8.0-7.0-8.0-6.0	4.0	3	W	EM	None	Twin stemmed at 2m. Squat tree.	Good	Good	40+	B1	9	254	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T110	Cherry (Wild)	On	12	1	None	350	4.0-3.0-2.0-2.0	3.0	4.5	W	EM	None	Dead tree. Maybneed formal risk assessment and move category to un-retainable if land-use under tree changes.	None	Fair	<10	C3	4.2	55	-	None
T111	Oak (English)	On	18	1	Yes	900	10.0-10.0-10.0-10.0	4.0	4.5	NW	EM	None	T76 TPO Monmouthshire. Balanced crown; high future potential.	Good	Good	40+	A1	10.8	366	-	Yes
T112	Pine (Scots)	On	14	1	None	700	5.0-4.0-4.0-4.0	7.0	7	N	M	None	Recently died; standing dead tree. Currently stable. Contains multiple woodpecker holes on ahem that appear to be active nest/roost sites. If land use under trees changes there may be need for a formal risk assessment.	None	Fair	10+	C3	8.4	222	-	None
T113	Oak (English)	On	18	1	None	1100	11.0-11.0-11.0-11.0	3.5	4.5	S	M	None	T78 TPO Monmouthshire. Stunning hedgerow oak; dome shaped with long lateral branches.	Good	Good	40+	A1	13.2	547	-	Yes
T114	Oak (English)	On	11	1	None	700	8.0-7.0-4.0-5.0	6.0	3.5	E	EM	None	Crown bias to north; partly due to lean but also pruning from power lines to south. Ivy clad. High cat B.	Good	Good	40+	B1	8.4	222	-	None
T115	Willow (Goat)	On	6	2	None	540	2.0-4.0-7.0-2.0	0.0	1	SW	EM	None	Fallen tree creating tunnel over footpath.	Good	Good	40+	B1	6.5	132	-	None
T116	Ash (Common)	On	19	1	Yes	1000	6.0-5.0-5.0-5.0	5.0	1	W	M	None	Decay pockets and cavities from branch failures provide niche habitat value. Some twiggy dieback on lower branches.	Good	Good	20+	B1	12	452	-	None
T117	Oak (English)	On	19	1	Yes	1100	6.0-8.0-6.0-6.0	5.0	3	S	M	None	T74 TPO Monmouthshire. Growing just east of public footpath. Slight lean to east. Good buttress roots.	Good	Good	40+	A1	13.2	547	-	Yes
T118	Oak (English)	On	20	1	None	1000	10.0-10.0-10.0-10.0	5.0	4	SE	M	None	T75 TPO Monmouthshire. Large tree with good vitality and high future potential.	Good	Good	40+	A1	12	452	-	Yes
T119	Ash (Common)	On	13	4	Yes	530	5.0-5.0-5.0-5.0	8.0	6	None	EM	None	T80 TPO Monmouthshire. Moribund ash with 10% epicormic regrowth.	Good	Good	<10	U	6.4	127	-	Yes

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Barton Hyett Arboricultural Consultants

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T120	Oak (English)	On	18	1	Yes	900	12.0-9.0-13.0-12.0	3.0	3	S	M	None	T81 TPO Monmouthshire. Very large; spreading crown. Lower branches pruned back from fields. No significant visible defects.	Good	Good	40+	A1	10.8	366	-	Yes
T121	Ash (Common)	On	17	1	Yes	800	10.0-7.0-10.0-12.0	3.0	3	None	M	None	Prolific growth and a well-balanced; spreading crown. Trunk not accessible from site. High category B tree. Ivy up stem.	Good	Good	20+	B3	9.6	290	-	None
T122	Ash (Common)	On	15	1	Yes	850	8.0-5.0-5.0-7.0	5.0	4	None	M	None	T86 TPO Monmouthshire. Moribund ash with one limb to the north having foliage - everywhere else dead. Ivy up stem. Many cavities.	Poor	Poor	<10	U	10.2	327	-	Yes
T123	Pine	Off	19	1	Yes	850	7.0-6.0-6.0-6.0	4.0	6	NW	M	None	Garden tree; much ivy up stem.	Good	Good	40+	A3	10.2	327	-	None
T124	Oak (English)	On	16	1	Yes	900	10.0-10.0-10.0-10.0	2.5	3	None	M	None	T82 TPO Monmouthshire. No significant visible defects.	Good	Good	40+	A1	10.8	366	-	Yes
T125	Oak (English)	On	16	1	Yes	900	9.0-9.0-9.0-10.0	1.5	6	None	M	None	T87 TPO Monmouthshire. High quality oak. Ivy up to crown break.	Good	Good	40+	A1	10.8	366	-	Yes
T126	Hazel (Common)	On	6	10	Yes	320	2.5-2.5-2.5-2.5	1.0	0	None	SM	None	Hedgerow tree.	Good	Good	20+	C1	3.8	46	-	None
T127	Oak (English)	On	13	1	Yes	400	5.0-5.0-5.0-5.0	2.0	2.5	S	SM	None	Boundary oak with no visible significant defects.	Good	Good	40+	B1	4.8	72	-	None
T128	Oak (English)	On	16	1	Yes	820	9.0-9.0-11.0-9.0	1.5	3	None	M	None	TPO T90 Monmouthshire. No significant visible defects.	Good	Good	40+	B1	9.8	304	-	Yes
T129	Oak (English)	On	16	1	Yes	900	11.0-10.0-11.0-11.0	1.5	3	None	M	None	TPO T91 Monmouthshire. No significant visible defects.	Good	Good	40+	A1	10.8	366	-	Yes
T130	Oak (English)	On	22	1	Yes	750	10.0-11.0-9.0-8.0	2.0	5	E	M	None	TPO T88 Monmouthshire. High quality oak. Ivy up stem.	Good	Good	40+	A1	9	254	-	Yes
T131	Oak (English)	On	9	1	Yes	450	6.0-7.0-1.5-6.0	2.0	1.5	S	EM	None	T92 TPO Monmouthshire. Inhibited crown due to large neighbour overshadowing. Some stagwood.	Fair	Good	40+	B1	5.4	92	-	Yes

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TREE SURVEY SCHEDULE

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SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T132	Ash (Common)	On	15	1	Yes	350	6.0-6.0-5.0-5.0	5.0	5	None	SM	ASNW	Part of TPO A3 Monmouthshire. No visible significant defects. Trunk inaccessible from site.	Good	Good	20+	A1	4.2	55	11	Yes
T133	Oak (English)	On	22	1	Yes	750	9.0-8.0-9.0-6.0	3.0	5	S	M	None	T89 TPO Monmouthshire. Ivy across a slightly patchy crown.	Good	Good	40+	B1	9	254	-	None
T134	Oak (English)	Off	22	1	Yes	750	9.0-9.0-9.0-8.0	6.0	5	None	M	None	High quality oak. Growing on off-site side of stream.	Good	Good	40+	A1	9	254	-	None
T135	Oak (English)	On	14	1	Yes	750	13.0-6.0-1.0-15.0	2.0	5	E	M	None	Part of TPO G14 Monmouthshire. High quality oak leaning away from neighbours. Growing on banks of NS within stream.	Good	Good	40+	A1	9	254	-	Yes
T136*	Oak (English)	Off	15	1	Yes	700	5.0-5.0-7.0-7.0	1.0	2	N	M	None	Good quality roadside oak.	Good	Good	40+	A1	8.4	222	-	None
T137	Ash (Common)	On	14	6	Yes	610	5.0-5.0-5.0-5.0	3.0	1	NE	EM	None	Multi stemmed at base. Ivy clad stems and crown. Power line through crown.	Good	Fair	20+	B1	7.3	168	-	None
T138	Holly	On	8	8	Yes	420	2.0-3.0-3.0-3.0	2.0	2	W	M	None	Multi stemmed at base. Growing out of hedgerow species	Good	Fair	20+	B2	5	80	-	None
T139	Ash (Common)	On	15	1	Yes	650	4.0-3.0-6.0-7.0	5.0	2.5	NE	M	None	Advance decay and fungal fruiting bodies at base. Dead limb NE. Decay in crown. Removal likely required if construction is proposed nearby.	Fair	Poor	<10	U	7.8	191	-	None
T140	Oak (English)	On	9	1	Yes	600	5.0-5.0-5.0-5.0	4.0	3	S	EM	None	Corrected lean west. Existing field access west with compacted ground.	Good	Fair	40+	B1	7.2	163	-	None
T141*	Ash (Common)	Off	25	1	Yes	700	9.0-9.0-9.0-9.0	10.0	3	E	M	None	Large tree. Inspected when out of leaf but crown appears to be in good condition.	Good	Good	20+	A1	8.4	222	-	None
T142*	Ash (Common)	On	17	2	Yes	460	5.0-5.0-5.0-5.0	6.0	1	W	M	None	Cavity in stem west side at 1m.	Fair	Fair	20+	B1	5.5	96	-	None
T143*	Ash (Common)	On	16	2	Yes	570	4.0-5.0-6.0-4.0	8.0	6	S	M	None	Reduced vitality. Decay and gaps in crown.	Fair	Fair	10+	C1	6.8	147	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

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Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T144	Oak (English)	Off	18	1	Yes	750	8.0-6.0-9.0-9.0	4.0	4	None	M	None	Crown lifted and branches cut back over road to 5m. Cut back on field side too. Much Ivy up stem and crown. No significant visible defects.	Good	Good	40+	A3	9	254	-	None
T145	Sycamore	Off	18	1	Yes	800	10.0-9.0-10.0-8.0	5.0	2.5	None	M	None	Large tree with spreading crown.	Good	Good	40+	B1	9.6	290	-	None
T146	Ash (Common)	Off	15	1	Yes	550	6.0-2.0-6.0-8.0	4.0	4.5	W	EM	None	Sparse canopy to S; possibly due to historic snap-out. No other significant visible defects.	Good	Fair	20+	B1	6.6	137	-	None
T147	Oak (English)	Off	18	1	Yes	750	8.0-9.0-6.0-9.0	4.0	4	None	M	None	Crown lifted over road to 5m. No significant visible defects.	Good	Good	40+	A1	9	254	-	None
T148	Oak (English)	Off	15	1	Yes	600	7.0-7.0-7.0-7.0	4.0	4	None	EM	None	Crown lifted over road to 5m. Ivy across crown.	Good	Good	40+	B1	7.2	163	-	None
T149	Oak (English)	On	16	1	Yes	780	6.0-8.0-8.0-6.0	3.0	3	SE	M	None	Roadside oak with slight sparsity of central crown.	Good	Good	40+	A1	9.4	275	-	None
T150	Oak (English)	On	16	1	Yes	800	9.0-9.0-8.0-8.0	3.0	3	W	M	None	Roadside oak with no significant visible defects. Cleared to 3m over road.	Good	Good	40+	A1	9.6	290	-	None
T151	Ash (Common)	On	11	1	Yes	400	6.0-6.0-7.0-5.0	3.0	3	None	EM	None	No signs of ash dieback.	Good	Good	20+	B1	4.8	72	-	None
T152*	Oak (English)	On	23	1	None	900	10.0-10.0-10.0-10.0	4.0	6	W	M	None	High quality oak.	Good	Good	40+	A1	10.8	366	-	None
T153*	Oak (English)	On	23	1	None	900	10.0-10.0-10.0-10.0	4.0	6	W	M	None	High quality oak.	Good	Good	40+	A1	10.8	366	-	None
T154*	Oak (English)	Off	15	1	Yes	750	6.0-8.0-6.0-6.0	6.0	5	E	M	None	Reduced vitality and deadwood throughout crown.	Poor	Fair	10+	C1	9	254	-	None
T155*	Willow (Crack)	On	9	1	Yes	800	6.0-6.0-6.0-6.0	0.0	2	NW	LM	None	Failed branches throughout. Cracks in stem and scaffold branches. Potential habitat value.	Fair	Poor	10+	C3	9.6	290	-	None
T156	Oak (English)	On	18	1	None	1200	12.0-12.0-12.0-12.0	2.0	2	S	M	None	Notable v high quality oak.	Good	Good	40+	A1	14.4	651	-	None
T157*	Maple (Field)	On	8	6	Yes	490	5.0-5.0-5.0-5.0	0.0	1	E	M	None	Larger than others in outgrown hedgerow.	Good	Fair	20+	B2	5.9	109	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

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SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T158*	Oak (English)	On	12	1	Yes	650	3.0-5.0-5.0-5.0	5.0	5	E	M	None	Dead tree. Upgraded category owing to failure unlikely to impact site and potential habitat value.	Poor	Fair	10+	C3	7.8	191	-	None
T159*	Lime (Small-leafed)	On	14	1	None	300	4.0-4.0-4.0-4.0	4.0	4	NE	EM	None	No significant defects.	Good	Good	40+	B1	3.6	41	-	None
T160*	Ash (Common)	On	17	2	None	570	6.0-6.0-6.0-6.0	5.0	5	W	M	None	Twin stem at base.	Good	Good	20+	B1	6.8	147	-	None
T161	Ash (Common)	On	20	2	Yes	580	6.0-6.0-6.0-7.0	2.0	0.5	W	M	None	Twin stemmed at base.	Good	Fair	20+	B1	7	152	-	None
T162*	Oak (English)	On	18	1	None	800	8.0-9.0-11.0-8.0	1.0	2	S	M	None	High quality large tree.	Good	Good	40+	A1	9.6	290	-	None
T163*	Hawthorn	On	7	1	None	500	4.0-4.0-4.0-4.0	2.0	2	N	LM	None	Large for species and good condition.	Good	Good	10+	B1	6	113	-	None
T164*	Alder (Common)	On	12	1	Yes	600	5.0-5.0-5.0-3.0	4.0	5	W	M	None	Adjacent to field access. Heavily Ivy clad stems recorded dead top. Deadwood in crown and reduced vitality.	Fair	Fair	10+	C1	7.2	163	-	None
T165*	Oak (English)	On	12	1	None	340	4.0-4.0-4.0-4.0	2.0	3	N	SM	None	Good quality establishing oak.	Good	Good	40+	B1	4.1	52	-	None
T166*	Alder (Common)	On	9	1	None	200	2.0-3.0-2.0-2.0	3.0	2.5	N	SM	None	Set out from group close to field access with compacted ground.	Good	Good	10+	C1	2.4	18	-	None
T167*	Oak (English)	On	12	1	None	300	4.0-4.0-4.0-4.0	2.0	2	N	SM	None	Good quality establishing oak.	Good	Good	40+	B1	3.6	41	-	None
T168*	Oak (English)	On	16	1	None	750	8.0-8.0-8.0-8.0	2.0	2.5	W	M	None	High quality tree growing on higher ground than site.	Good	Good	40+	A1	9	254	-	None
T169*	Oak (English)	On	18	1	None	550	5.0-5.0-5.0-5.0	5.0	5	W	M	None	High quality tree. Drawn up form.	Good	Good	40+	A1	6.6	137	-	None
T170*	Oak (English)	On	18	1	None	1100	9.0-9.0-9.0-9.0	2.0	4	W	M	None	High quality large tree.	Good	Good	40+	A1	13.2	547	-	None
T171*	Ash (Common)	On	18	1	None	1000	9.0-9.0-9.0-9.0	2.0	4	S	M	None	High quality large tree. No sign of ash dieback - assessed out of leaf.	Good	Good	20+	A1	12	452	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

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SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

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T172*	Oak (English)	On	12	1	None	460	6.0-6.0-6.0-6.0	2.0	4	N	EM	None	Good quality establishing oak.	Good	Good	40+	B1	5.5	96	-	None
T173*	Oak (English)	On	27	1	None	1000	10.0-10.0-10.0-10.0	3.0	3	NE	M	None	Larger than other trees in group. High quality oak.	Good	Good	40+	A1	12	452	-	None
T174*	Oak (English)	Off	18	1	None	900	8.0-8.0-8.0-8.0	3.0	2	E	M	None	High quality oak. Sub 75mm scrub understorey.	Good	Good	40+	A1	10.8	366	-	None
T175	Oak	On	17	1	None	780	9.0-9.0-9.0-8.0	3.0	3.5	N	M	None	Wide spreading crown; established on old hedge bank; good vigour throughout crown	Good	Good	40+	A1	9.4	275	-	None
T176	Oak (English)	On	13	1	Yes	600	8.0-8.0-8.0-8.0	1.5	3	None	EM	None	Typical for species and age	Good	Good	40+	B1	7.2	163	-	None
T177	Oak	On	18	1	Yes	900	9.0-9.0-9.0-9.0	2.5	3.5	S	M	None	Wide spreading crown; scaffold limbs heavily swathed in ivy; established on old hedge bank; good vigour throughout crown	Good	Good	40+	A1	10.8	366	-	None
T178	Oak (English)	On	16	1	Yes	650	8.0-8.0-8.0-8.0	5.0	6	None	EM	None	Surveyed from other side of field. Defects not seen from afar.	Good	Good	40+	B1	7.8	191	-	None
T179*	Hawthorn	On	6	8	Yes	420	3.0-2.0-2.0-2.0	1.0	0	None	M	None	Outgrown rem-t of old hedge-line; exposed & damaged roots	Good	Fair	20+	B1	5	80	-	None
T180	Oak	On	17	1	None	670	8.5-8.0-7.5-8.0	3.5	1	NW	EM	None	Established on sloping ground; heavily swathed in ivy; good vigour throughout crown; ditch to W	Good	Fair	40+	B1	8	203	-	None
T181*	Hawthorn	On	6.5	2	Yes	230	2.0-2.0-2.0-2.5	1.0	0	None	M	None	Outgrown rem-t of old hedge-line; lower road side brushed by flail for clearance	Good	Fair	20+	B1	2.8	24	-	None
T182	Ash (Common)	On	12	2	None	290	3.5-3.0-4.0-3.5	2.0	0	None	SM	None	Twin stemmed forming a cohesive crown; bark damage to W of stems; exposed & damaged roots	Good	Fair	20+	C1	3.5	38	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T183	Ash (Common)	On	19	1	None	960	10.0-9.0-8.0-9.0	3.0	0	None	M	None	Tree appeared to have a sub-domi-t stem to the S which has been felled; heavily swathed in ivy; historical storm danger to mid-crown @8m with moderate sized limb hung-up in crown; ditch to W; basal cavity visible from S	Good	Fair	20+	B1	11.5	417	-	None
T184	Ash (Common)	On	17	3	Yes	620	7.0-7.0-7.0-7.0	3.0	0	None	SM	None	Triple stemmed forming a cohesive crown; ivy cover to stems; prolific watershoots triggered throughout crown	Good	Fair	20+	B1	7.4	174	-	None
T185	Ash (Common)	On	18	1	None	1000	8.0-8.5-9.0-9.5	3.0	0	None	M	None	Established on sloping site; exposed & damaged roots with localised ground compaction; dia. recorded @1m; good vigour throughout crown	Good	Fair	40+	B1	12	452	-	None
T186	Willow (Crack)	On	15	1	None	590	6.0-9.0-12.0-7.0	1.0	2.5	S	EM	None	In-field tree; established to E of inspection chamber; historical storm damage to N of crown @8m with limb partially torn-out & still attached; occluding damage to E of stem with bark loss & exposed heartwood; good vigour throughout crown	Good	Fair	20+	B1	7.1	157	-	None
T187	Hawthorn	On	5	2	Yes	180	2.0-2.0-3.0-2.0	0.5	0	None	EM	None	Outgrown rem-t of old hedge-line	Good	Fair	20+	B1	2.2	15	-	None
T188	Hawthorn	On	4.5	4	Yes	230	2.0-2.0-2.5-2.0	0.5	0	None	EM	None	Outgrown rem-t of old hedge-line	Good	Fair	20+	B1	2.8	24	-	None
T189*	Oak	On	16	1	None	730	8.0-8.0-8.5-7.5	3.5	3.5	E	M	None	Wide spreading crown; established on old hedge bank; good vigour throughout crown	Good	Good	40+	B1	8.8	241	-	None
T190*	Oak	On	15	1	None	820	7.0-7.0-7.5-7.0	3.0	0	None	EM	None	Established on old hedge bank; main stem splits @1.5m into 2x scaffold stems with a tight union; good vigour throughout crown	Good	Fair	40+	B1	9.8	304	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

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T191	Willow (Crack)	On	16	1	None	850	9.0-8.0-6.0-8.0	0.0	1.5	N	M	None	Heavily pruned to S to clear overhead power lines; partially failed hung-up limb to N of crown; small twiggy deadwood throughout crown	Good	Fair	20+	B1	10.2	327	-	None
T192*	Oak	On	16	1	None	540	6.5-7.0-7.0-7.0	3.0	3	W	SM	None	Established hedge tree; typical for age & species	Good	Fair	40+	B1	6.5	132	-	None
T193*	Oak	On	16	1	None	1010	9.0-9.5-9.0-9.0	4.5	0	None	M	None	Dia recorded @1m; twin stemmed forming a slightly disjointed crown; pressure buckles to main stems; pruning to N of crown to increase clearance; established within outgrown hedge; access track with localised rutting & compaction of ground; small twiggy & moderate sized deadwood throughout a vigorous crown showing prolific watershoots	Good	Good	40+	A1	12.1	461	-	None
T194*	Oak	Off	16	1	Yes	700	9.0-7.0-7.0-8.0	3.5	3	N	M	None	Off-site tree; cursory inspection from boundary; good vigour throughout crown	Good	Fair	40+	B1	8.4	222	-	None
T195*	Oak	Off	16	1	Yes	700	7.0-8.0-7.0-6.0	3.5	2	N	M	None	Off-site tree; cursory inspection from boundary; good vigour throughout crown	Good	Fair	40+	B1	8.4	222	-	None
T196*	Oak	Off	16	1	Yes	700	8.0-8.0-8.0-8.0	3.5	4	S	M	None	Off-site tree; cursory inspection from boundary; good vigour throughout crown	Good	Fair	40+	B1	8.4	222	-	None
T197	Oak (English)	Off	11	1	Yes	900	3.0-5.0-6.0-1.5	3.0	3.5	E	LM	None	Retrenched crown. Main limbs cut back away from field. Burrows underneath buttress. Some stag-heading.	Good	Fair	20+	A3	10.8	366	-	None
T198	Cypress (Lawson)	Off	8	1	Yes	200	2.0-2.0-2.0-2.0	0.0	0.5	None	SM	None	Establishing garden tree.	Good	Good	20+	B1	2.4	18	-	None
T199	Oak (English)	On	14	1	Yes	950	8.0-7.0-8.0-8.0	3.5	2.5	E	M	None	Slight deadwood and small cavities present across crown. Some epicormic growth throughout.	Good	Good	40+	A1	11.4	408	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T200*	Ash (Common)	On	1.5	1	Yes	800	3.5-0.5-2.5-0.5	0.5	0.5	S	M	None	Hedgerow tree; managed along with the surrounding hedge but obviously old. Cavities throughout stem.	Good	Fair	20+	C3	9.6	290	-	None
T201	Oak (English)	Off	18	1	Yes	900	12.0-12.0-12.0-10.0	2.5	5	S	M	None	Spreading crown. No significant visible defects.	Good	Good	40+	A1	10.8	366	-	None
T202	Ash (Common)	On	16	1	Yes	850	7.0-7.0-6.0-7.0	4.0	5	SE	M	None	Some decay in base of stem; Inonotus hispidus brackets evident above same area. some cavities in crown; growing next to 2 x gated field access.	Good	Good	20+	A3	10.2	327	-	None
T203	Oak (English)	On	16	1	Yes	870	9.0-9.0-7.0-7.0	2.5	2.5	W	M	None	Limbs snapped out to W with crevices at severance. Collapsed limb up top of crown.	Good	Good	40+	B3	10.4	342	-	None
T204	Oak (English)	On	9	1	Yes	900	6.0-5.0-4.0-3.5	2.5	2.5	W	M	None	Some historical storm damage with good regeneration through the remaining crown. Some crown retrenchment. Numerous burrs on main stem and Epicormic growth. Ivy up stem.	Good	Good	40+	B3	10.8	366	-	None
T205	Oak (English)	On	15	1	Yes	700	9.0-8.0-6.0-8.0	2.5	2.5	W	M	None	Numerous woodpecker holes in lower branches.	Good	Good	40+	B3	8.4	222	-	None
T206	Oak (English)	On	17	1	None	1000	10.5-10.0-10.5-9.0	4.0	5	S	M	None	No significant defects.	Good	Good	40+	A1	12	452	-	None
T207	Oak (English)	On	15	1	Yes	900	10.0-10.0-10.0-9.0	2.0	3	None	M	None	Ivy up stem and across crown. No significant visible defects.	Good	Good	40+	A1	10.8	366	-	None
T208	Oak (English)	On	17	1	Yes	800	8.0-9.0-9.0-8.0	2.5	5	S	M	None	Ivy up stem. No significant visible defects.	Good	Good	40+	B1	9.6	290	-	None
T209	Oak (English)	On	15	1	Yes	950	9.0-9.0-11.0-11.0	3.0	3.5	None	M	None	Ivy up stem and across crown. No significant visible defects.	Good	Good	40+	A1	11.4	408	-	None
T210	Oak (English)	On	15	1	Yes	750	9.0-8.0-8.0-9.0	3.0	1.5	W	M	None	A couple of branches in lower crown have snapped. No significant visible defects.	Good	Good	40+	A1	9	254	-	None
T211	Sycamore	On	16	1	None	630	7.0-7.0-7.0-7.0	3.0	2	S	EM	None	Boundary tree. No significant visible defects.	Good	Good	40+	B1	7.6	180	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

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SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T212	Oak (English)	On	17	1	Yes	1100	8.0-10.0-10.0-9.0	3.0	2.5	N	M	None	No significant visible defects.	Good	Good	40+	A1	13.2	547	-	None
T213	Oak (English)	On	17	1	None	1250	6.0-11.0-11.0-8.0	3.0	2.5	N	M	None	No significant visible defects.	Good	Good	40+	A1	15	707	-	None
T214	Sycamore	On	17	4	Yes	630	8.0-6.0-6.0-6.0	3.0	2	E	EM	None	Multi-stemmed tree growing in boundary ditch forming part of tree horizon. 1 stem historically snapped out.	Good	Fair	40+	B2	7.6	180	-	None
T215	Oak (English)	On	17	1	None	750	10.0-11.0-10.0-11.0	2.5	2.5	W	M	None	A couple of small limb failures to N on lower part of crown. Otherwise no significant defects.	Good	Good	40+	A1	9	254	-	None
T216	Alder (Common)	On	16	1	None	1010	10.0-7.5-9.0-7.0	2.5	1.7	NE	M	ASNW	Historical storm damage leaving branch stubs with associated decay and small cavities; giving good habitat value.	Good	Good	20+	B3	12.1	461	15.15	None
T217	Oak (English)	On	17	1	None	820	8.0-7.0-9.0-8.0	2.0	3	S	M	ASNW	Hedgerow tree. Localised pruning around damaged limb to S. No significant defects.	Good	Good	40+	B1	9.8	304	14	None
T218	Oak (English)	On	14	1	Yes	850	7.0-8.0-9.0-8.0	2.5	2.5	W	M	None	Ivy cover to main union and scaffold limbs.	Good	Good	40+	B1	10.2	327	-	None
T219	Oak (English)	On	17	1	None	1000	11.0-9.0-10.0-10.0	2.5	2.5	W	M	None	A couple of small limb failures on lower part of crown. Otherwise no significant defects.	Good	Good	40+	A1	12	452	-	None
T220	Willow (Crack)	On	16	2	Yes	1170	8.0-5.0-6.0-8.0	4.0	3	W	M	None	Multistem lapsed pollard. Main stem historically failed at 3m. Delaminated limb to NW at 5m. Significant decay to main bole. Recommend re-pollard at 2m-4m. Potentially good habitat wildlife value.	Good	Fair	20+	C3	14	619	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T221	Willow (Crack)	On	16	4	Yes	690	6.0-7.0-6.0-8.0	3.5	3	None	M	None	Multistem lapsed pollard. Catastrophic failure of stem 0.3m. Stems are failing with all stems hung up in adjacent trees. Recommend re-pollard at 2m. Significant decay in bole hence potentially good habitat wildlife value.	Fair	Poor	20+	C3	8.3	215	-	None
T222	Willow (Crack)	On	21	1	Yes	1800	12.0-8.0-9.0-8.0	3.5	5	E	M	None	Diameter recorded at 0.3m AGL. Multistem lapsed pollard. Significant decay to main bole; hence potentially good habitat value. Stems are starting to fail with some stems hung up in adjacent trees. Recommend re-pollard.	Good	Fair	20+	B3	15	707	-	None
T223*	Oak	On	16	1	None	1090	7.0-10.0-8.0-8.0	3.0	3	E	M	None	Field-grown tree; wide spreading crown; with a historical snapping of limb to W; well-healed. Vigorous crown. Ground around base has been compacted by livestock.	Good	Good	40+	A1	13.1	537	-	None
T224	Oak (English)	On	14	1	Yes	600	7.0-7.0-8.0-7.0	3.0	2.5	E	M	None	No significant visible defects.	Good	Good	40+	B1	7.2	163	-	None
T225	Oak (English)	On	12	1	Yes	380	6.0-6.0-7.0-6.0	3.0	2.5	S	EM	None	No significant visible defects.	Good	Good	40+	B1	4.5	65	-	None
T226	Oak (English)	Off	18	1	Yes	1000	9.0-9.0-9.0-10.0	5.0	1	S	M	None	Large garden tree. No issue with branches over road.	Good	Good	40+	A1	12	452	-	None
T227	Ash (Common)	Off	17	6	Yes	860	9.0-9.0-10.0-7.0	6.0	1.5	SW	M	None	Part of G20 TPO; Monmouthshire. Large multi-stemmed tree with spreading crown; growing on east side stream running along road. Ivy up one stem.	Good	Good	20+	B1	10.3	335	-	Yes
T228	Oak (English)	Off	19	1	Yes	1000	12.0-10.0-12.0-10.0	4.5	5	None	M	None	TPO T129 Monmouthshire. Ivy up stem and concealing lower stem. No visible significant defects. Ivy up stem to over 10m. Managed over road at c. 4-5m.	Good	Good	40+	A1	12	452	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

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T229	Willow	Off	5	2	Yes	1270	2.5-2.5-2.5-2.5	1.0	1	None	M	None	Part of G15 TPO; Monmouthshire. Pollarded tree - rpa needs adjusting.	Good	Good	20+	B1	15	707	-	Yes
T230	Ash (Common)	On	16	1	Yes	800	10.0-6.0-6.0-6.0	4.0	5	None	M	None	Branches over bonfire to E burnt and dead. Ivy across crown.	Good	Good	20+	B1	9.6	290	-	None
T231	Oak (English)	Off	18	1	Yes	900	8.0-10.0-12.0-8.0	2.0	3	SE	M	None	No visible significant defects.	Good	Good	40+	A1	10.8	366	-	None
T232	Willow	Off	5	1	Yes	900	2.5-2.5-2.5-2.5	1.0	1	None	M	None	Part of G15 TPO; Monmouthshire. Pollarded tree - rpa needs adjusting.	Good	Good	20+	B1	10.8	366	-	Yes
T233	Willow	Off	5	1	Yes	900	2.5-2.5-2.5-2.5	1.0	1	None	M	None	Part of G15 TPO; Monmouthshire. Pollarded tree - rpa needs adjusting.	Good	Good	20+	B1	10.8	366	-	Yes
T234	Willow	Off	5	1	Yes	900	2.5-2.5-2.5-2.5	1.0	1	None	M	None	Part of G15 TPO; Monmouthshire. Pollarded tree - rpa needs adjusting.	Good	Good	20+	B1	10.8	366	-	Yes
T235	Willow	Off	5	1	Yes	900	2.5-2.5-2.5-2.5	1.0	1	None	M	None	Part of G15 TPO; Monmouthshire. Pollarded tree - rpa needs adjusting.	Good	Good	20+	B1	10.8	366	-	Yes
T236	Willow	Off	5	1	Yes	900	2.5-2.5-2.5-2.5	1.0	1	None	M	None	Part of G15 TPO; Monmouthshire. Pollarded tree - rpa needs adjusting.	Good	Good	20+	B1	10.8	366	-	Yes
T237*	Willow	Off	5	1	Yes	900	2.5-2.5-2.5-2.5	1.0	1	None	M	None	Part of G15 TPO; Monmouthshire. Pollarded tree - rpa needs adjusting.	Good	Good	20+	B1	10.8	366	-	None
T238	Willow	Off	5	1	Yes	900	2.5-2.5-2.5-2.5	1.0	1	None	M	None	Part of G15 TPO; Monmouthshire. Pollarded tree - rpa needs adjusting.	Good	Good	20+	B1	10.8	366	-	Yes
T239	Willow	Off	5	1	Yes	900	2.5-2.5-2.5-2.5	1.0	1	None	M	None	Part of G15 TPO; Monmouthshire. Pollarded tree - rpa needs adjusting.	Good	Good	20+	B1	10.8	366	-	Yes
T240	Oak (English)	On	19	1	None	1290	8.0-12.0-10.0-11.0	2.5	4	S	M	None	T137 Monmouthshire. Very large tree with no visible significant defects. Historic snap-out of major limb to north has left a gap in this section of canopy - regrowth vigorous.	Good	Good	40+	A1	15	707	-	Yes

** tree location approximate*

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T241	Oak (English)	On	14	1	Yes	900	6.0-7.0-8.0-8.0	3.5	2.5	S	M	None	Slight crown retrenchment; ivy up stem; cavities and crevices across crown.	Good	Good	40+	A3	10.8	366	-	None
T242	Willow	On	16	1	Yes	800	7.0-9.0-5.0-9.0	3.5	2.5	S	M	None	Historic cavity at 5m from snapped out limb.	Good	Good	20+	B1	9.6	290	-	None
T243*	Oak	On	16	1	None	880	9.0-10.0-9.0-9.0	1.5	2.5	E	M	None	Established on sloping ground; exposed & damaged roots; wide spreading crown; small - moderate sized deadwood throughout a vigorous crown	Good	Good	40+	A1	10.6	350	-	None
T244	Hawthorn	On	4	1	Yes	110	1.0-1.0-1.0-1.0	0.5	0	None	EM	None	Outgrown rem-t of old hedge-line	Good	Fair	20+	B1	1.3	5	-	None
T245*	Oak	Off	18	1	Yes	900	7.5-8.5-8.5-8.5	4.5	4	S	M	None	Established hedge tree; typical for age & species; slightly sparse crown	Good	Fair	40+	B1	10.8	366	-	None
T246*	Oak	Off	18	1	Yes	850	8.0-9.0-8.0-8.5	3.5	3.5	S	M	None	Established hedge tree; typical for age & species; slightly sparse crown; historical storm damage to NW of crown @4m	Good	Fair	40+	B1	10.2	327	-	None
T247	Oak	On	15	1	None	1250	6.0-6.5-7.0-7.0	2.0	2	N	M	None	Has appearance of lapsed pollard with squat bole & multiple stems from 3 - 3.5m; historical root collar damage to N & E; historical storm damage to mid-crown with wounds & associated pockets of decay; small to moderate sized deadwood to mid-crown with debris on ground to N; visible decay to main union; visible cavity opening to W of main stem @1.75m; vigorous crown mostly formed by semi & early mature re-gen; no significant veteran features observed hence 'notable' designation	Good	Good	40+	A3	15	707	-	None

** tree location approximate*

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SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T248*	Oak	On	17	1	None	690	6.0-5.0-5.0-6.0	2.0	6	NE	EM	None	Extensive area of bark loss to E of stem @6 - 10m with exposed heartwood; vigorous crown with small to moderate sized deadwood throughout; good habitat value; laterally suppressed by adjacent oak	Good	Fair	20+	B3	8.3	215	-	None
T249*	Oak	On	18	1	None	900	7.5-7.0-9.0-8.5	3.0	3	W	M	None	Historical vehicular damage to W of crown @4.5m; wide spreading crown; small - moderate sized deadwood throughout a slightly sparse crown	Good	Fair	40+	A1	10.8	366	-	None
T250*	Pine (Scots)	On	8	1	None	450	0.5-2.5-8.0-2.5	0.0	0	None	SM	None	Upper stem has failed @8.5m & root plate has failed with whole tree leaning heavily to SE; damaged limbs in contact with ground have prevented tree falling over completely. Recommend felling	Fair	Poor	10+	C1	5.4	92	-	None
T251*	Oak	On	20	1	None	1390	10.5-10.5-9.0-9.5	3.0	3	S	M	None	Has appearance of lapsed pollard with squat bole & multiple stems from 3m; small to moderate sized deadwood to mid-crown with debris on ground to N; vigorous crown; no significant veteran features observed hence 'notable' designation	Good	Good	40+	A3	15	707	-	None
T252*	Oak	On	12	1	None	620	4.0-5.0-6.0-3.5	2.0	2	S	EM	None	Extensive area of bark loss to NW of stems @1.5 - 8m with exposed heartwood; vigorous crown with small to moderate sized deadwood throughout; good habitat value	Good	Fair	20+	B3	7.4	174	-	None
T253	Oak (English)	On	17	1	Yes	1200	9.0-10.0-10.0-8.0	3.0	3	W	M	None	Historic vertical; internal seam has created lower stem bulging; seemingly well healed. Small crevices across crown.	Good	Good	40+	A1	14.4	651	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T254	Oak (English)	On	15	1	Yes	900	5.0-8.0-8.0-6.0	3.0	2.5	S	M	None	Lower limb to south has large lateral crack providing substantial crevice. This limb has been pruned back from road.	Good	Good	40+	A3	10.8	366	-	None
T255	Oak (English)	On	14	1	Yes	750	8.0-9.0-8.0-9.0	3.5	3.5	W	M	None	Ivy up stem. No significant visible defects.	Good	Good	40+	B1	9	254	-	None
T256	Oak (English)	On	19	1	None	1160	8.0-10.0-6.0-10.0	2.0	2.5	NE	M	None	Large; impressive oak in corner of field next to public footpath entrance. No significant; visible defects.	Good	Good	40+	A1	13.9	609	-	None
T257	Oak (English)	On	15	1	Yes	600	9.0-8.0-8.0-8.0	5.0	3	S	M	None	Ivy up stem to 13m. No significant visible defects.	Good	Good	40+	B1	7.2	163	-	None
T258*	Oak (English)	On	12	3	Yes	560	5.0-5.0-5.0-5.0	3.0	2	S	EM	None	Multi stemmed at base. Stem not on topo. Growing between fences.	Good	Fair	40+	B2	142	6.7		
T259*	Willow (Goat)	Off	10	3		700	5.0-5.0-5.0-5.0	1.0	1	N	M	None	Large fit species. Dysfunctional cambium around and below main unions. Would benefit from pollarding. Not on topo.	Good	Fair	20+	B2	222	8.4		
T260	Ash (Common)	Off	12	1	Yes	400	5.0-5.0-5.0-5.0	3.0	1	S	EM	None	Off site; measurements estimated.	Good	Good	20+	B2	72	4.8		
T261*	Sycamore	On	9	2	None	220	3.0-3.0-2.0-2.0	3.0	0	None	SM	None	Self-seeded in verge adjacent to street lamp; foliage close to lamp head & road sign; utilities inspection chamber to N of root plate	Good	Fair	20+	C1	2.6	22	-	None
T262*	Ash (Common)	On	16	1	None	510	7.0-5.0-6.0-5.0	4.5	0	None	SM	None	Adjacent to street lamp; foliage in contact with lamp head; lite ivy cover to lower stem	Good	Fair	20+	B1	6.1	118	-	None
T263*	Sycamore	On	15	1	None	360	5.0-5.0-5.0-5.0	2.5	2	N	SM	None	Lite ivy cover to lower stem	Good	Fair	20+	B1	4.3	59	-	None
T264*	Ash (Common)	On	10	4	Yes	290	4.0-4.0-4.0-3.0	3.0	0	None	SM	None	Self-seeded in verge adjacent to overhead telecoms pole; foliage in contact with lines	Good	Fair	20+	C1	3.5	38	-	None
T265*	Oak	On	17	1	Yes	750	8.0-7.0-8.0-7.0	3.5	1.5	S	M	None	Established on hedge-bank / change of levels; dense ivy cover; wide spreading crown	Good	Fair	40+	B1	9	254	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

PROJECT NO: 6548

SITE NAME: CANDWR SOLAR FARM

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T266*	Sycamore	On	9	1	None	370	5.0-5.0-4.0-4.0	1.5	1	N	SM	None	Ditch to NW; dia. recorded @0.25m	Good	Fair	20+	B1	4.4	62	-	None
T267*	Oak	On	19	1	None	840	8.0-8.5-9.0-8.0	3.5	6	S	M	None	Established on hedge-bank / change of levels; good stem taper; wide & spreading crown; historical storm damage to E & SW of crown) respectively @9 & 6m); old dense ivy cover which has mostly died off	Good	Fair	40+	A2	10.1	319	-	None
T268*	Oak	On	7.5	1	None	320	0.5-1.5-7.0-1.0	2.5	2.5	S	SM	None	Laterally suppressed by adjacent mature oak which has resulted in an asymmetric crown	Fair	Fair	20+	C1	3.8	46	-	None
T269*	Oak	On	18	1	None	850	6.5-7.0-8.5-7.0	4.5	5	SE	M	None	Historical storm damage has resulted in loss of upper part of main stem; large cavity to N of main stem @9m; live sections of crown are focused to small clusters on lateral limbs to upper crown & E; S & W of lower crown; slightly waterlogged ground to S of root plate	Fair	Fair	40+	B3	10.2	327	-	None
T270*	Oak	Off	18	1	Yes	900	7.0-8.0-8.0-8.0	4.0	8	NW	M	None	Off-site; cursory inspection from boundary; established to edge of field; good stem taper; laterally suppressed by alder to N; open drain to NW of root plate	Good	Fair	40+	A1	10.8	366	-	None
T271*	Oak	On	17	1	None	1070	8.0-9.0-9.0-8.5	3.5	3	N	M	None	Established to SW of fenced field boundary; live crown occurs in clusters to ends of scaffold & lateral limbs; limited development of inner crown; bare ground around root plate (livestock sheltering) with exposed & damaged roots; bark loss with exposed heartwood to root collar (most extensive is to SW); large timber volume dumped to SW of root plate	Fair	Fair	40+	B3	12.8	518	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

PROJECT NO: 6548

SITE NAME: CANDWR SOLAR FARM

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height (m)	No. of stems	Est diam?	Calc. / actual stem dia. (mm)	Crown radii (m) N-E-S-W	Av. low crown height (m)	1st branch ht (m)	1st branch dir.	Life stage	Special importance	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)	RPA m²	Veteran/ Ancient Tree or ANSW buffer radius (m)	TPO
T272*	Oak	Off	18	1	Yes	1100	8.0-9.0-9.0-8.0	3.5	6	S	M	None	Off-site; cursory inspection from boundary; established to edge of field; good stem taper; wide & spreading crown; historical pruning (crown reduction) to NE of crown to clear overhead power lines; open drain to SE of root plate	Good	Fair	40+	A1	13.2	547	-	None
T273*	Oak	On	18	1	Yes	1000	7.0-8.5-8.0-8.0	3.0	6	S	M	None	Established to edge of field adjacent to hedge bank / level change; open drain to E; wide & spreading crown; historical storm damage to S of mid-crown @7.5m with damaged branch stub & associated decay	Good	Fair	40+	A1	12	452	-	None
T274*	Oak	Off	18	1	Yes	1050	8.0-8.0-8.5-8.0	3.5	0	None	M	None	Off-site; cursory inspection from boundary; established to edge of field; live crown occurs in clusters to ends of scaffold & lateral limbs; hardly discernible inner crown giving a 'lion's tail' effect to branch form; open drain to E of root plate	Fair	Fair	40+	B1	12.6	499	-	None
T275*	Oak	Off	17	1	Yes	850	8.0-8.0-8.0-8.0	3.0	5	S	M	None	Off-site; cursory inspection from boundary; established to edge of field; good stem taper; heavily swathed in ivy; open drain to NW of root plate	Good	Fair	40+	A1	10.2	327	-	None
T276*	Oak	Off	17	1	Yes	900	8.0-8.0-8.0-8.0	3.0	3	E	M	None	Off-site; cursory inspection from boundary; established to edge of field; good stem taper; extensive excavations around root plate (appears to be part of a badger sett); spreading crown; open drain to NW of root plate	Good	Fair	40+	A1	10.8	366	-	None
T277*	Oak	Off	18	1	Yes	900	8.0-8.0-9.0-8.0	3.5	5.5	S	M	None	Off-site; cursory inspection from boundary; established to edge of field; good stem taper; spreading crown; open drain to NW of root plate	Good	Fair	40+	A1	10.8	366	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett
Arboricultural Consultants

GROUPS OF TREES

Ref	Species	On/off site	Height range (m)	No. of trees	Est diam?	Max stem diam (mm)	Av. Crown radius (m)	Avg. low crown height (m)	Life Stage	General Observations	Health & vitality	Structural condition	Estimated Remaining Contribution (Years)	BS5837 Category	RPA Radius (m)	TPO
G1*	Common alder; willow	On	5-8	12	Yes	250	3	0	SM	Scrub group. Mostly sub 75mm stems with some larger willows on site side with spreading forms.	Fair	Fair	20	C2	3	None
G2*	Common alder	Off	12-18	6	Yes	500	5	5	EM	Ground slopes down towards group. Dense bramble site side. Multi stemmed at bases.	Good	Fair	20	B2	6	None
G3*	Common alder; willow	On	5-8	12	Yes	100	3	0	SM	Scrub group.	Fair	Fair	20	C2	1.3	None
G4	Grey sallow; goat willow	On	5-6	2	Yes	200	3	0	SM	Cohesive crowns with spreading scrub form.	Good	Fair	20	C2	2.4	None
G5*	Common alder; hazel; willow	On	12-23	15	Yes	700	5	2	EM	Ground slopes towards group. Predomi-tly alder. Individually cat B trees but cat A as a group.	Good	Good	40	A2	8.4	None
G6*	Common alder; common ash; willow	On	5-10	10	Yes	250	3	0	SM	Growing under pylon - likely to be topped or felled in future. Dense bramble at bases.	Fair	Fair	10	C2	3	None
G7*	Common alder; common ash; hazel	On	6-14	10	Yes	400	5	0	EM	Field boundary group on lower ground than site. Dense bramble site side. Some ivy clad stems.	Good	Fair	20	B2	4.8	None
G8*	Crack willow; common ash	Off	10-12	4	Yes	200	4	2	EM	Scrub section with collapsed willow.	Fair	Fair	10	C2	2.4	None
G9*	Willow; common alder	On	10-15	5	Yes	600	6	5	M	Ivy clad stems. Larger than others in group. Topped willows with decay. Ground slopes towards group.	Fair	Fair	20	B2	7.2	None
G10*	Common alder; common ash; willow; hazel	On	6-18	50	Yes	500	5	0	EM	Field boundary close grown group on lower ground than site. Dense bramble site side. Some ivy clad stems.	Good	Fair	20	B2	6	None
G11*	Common alder	Off	12-15	4	Yes	300	5	5	EM	Cohesive crown. Growing on lower ground than site.	Good	Good	20	B2	3.6	None
G12*	Common beech; common ash	Off	16-20	3	Yes	550	6	1	M	Larger than others in group. Dense bramble at base. Ground slopes down towards group.	Good	Good	40	A2	6.6	None
G13*	Common beech; common oak; holly; hazel; common ash	On	5-15	50	Yes	300	6	0	EM	Field boundary group; varied size and condition. Group slopes towards group. Dense bramble site side.	Good	Good	20	B2	3.6	None
G14*	English oak; willow; common ash	Off	12-16	5	Yes	600	6	1	M	Larger than others in group. Dense bramble at base. Ground slopes down towards site.	Good	Good	40	A2	7.2	None
G15*	Common alder	Off	12-13	2	Yes	350	4	4	EM	Some failed stems. Decay in remaining stems.	Good	Fair	10	C2	4.2	None
G16*	Willow	Off	4-8	20	Yes	200	3	0	SM	Dense crowns and stems. Multi stemmed trees dense bramble site side. Measurements estimated. Larger trees recorded individually.	Good	Fair	20	C2	2.4	None
G17*	Common ash; alder; willow; silver birch; holly; common beech	On	5-15	20	Yes	500	4	0	EM	Mixed group with dense bramble in parts. Some multi stemmed trees. Some dead stems.	Good	Fair	20	B2	6	None

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett
Arboricultural Consultants

Ref	Species	On/off site	Height range (m)	No. of trees	Est diam?	Max stem diam (mm)	Av. Crown radius (m)	Avg. low crown height (m)	Life Stage	General Observations	Health & vitality	Structural condition	Estimated Remaining Contributio n (Years)	BS5837 Category	RPA Radius (m)	TPO
G18*	Common alder	On	3-5	4	Yes	150	2	2	SM	Cohesive crowns. Reduced vitality. Dense bramble. Some stem damage.	Fair	Fair	10	C2	1.8	None
G19*	Common alder	On	6-7	5	None	300	3	2	EM	Cohesive crowns; close grown stems.	Good	Good	20	B2	3.6	None
G20	Lawson's cypress.	Off	10-14	4	Yes	350	5	1	EM	Establishing; linear group.	Good	Good	40	B2	4.2	None
G21	Common ash; hawthorn; blackthorn	On	5-11	6	Yes	250	4	3	EM	Multi stemmed roadside ash with thorn understorey. Reduced vitality. Managed over road.	Fair	Fair	10	C2	3	None
G22	Common beech; ash; oak.	Off	17-20	9	Yes	850	9	5	M	Mature group of predomi-tly oaks along road.	Good	Good	40	A2	10.2	None
G23	Oak; ash; hazel.	Off	15-18	12	Yes	850	6	1.5	M	Roadside mixed-species group; set 5m back from road. Estimated dbh and crown spreads. Trunks not inspected closely.	Good	Good	40	B2	10.2	None
G24*	Pedunculate oak; common beech	On	15-17	2	Yes	900	7	5	M	Characterful oak and multi stemmed beech.	Good	Good	40	A2	10.8	None
G25	Hazel; blackthorn; holly.	Off	6-8	6	Yes	150	1.5	0.5	SM	Outgrown hedgerow extending into road by 1.5m in parts.	Good	Good	20	B2	1.8	None
G26*	Sycamore; field maple	Off	7-11	3	Yes	400	4	3	EM	Multi stemmed trees. Two of three are in private garden.	Good	Fair	20	B2	4.8	None
G27	Ash; sycamore; hazel.	Off	10-12	3	Yes	250	4	4	SM	Healthy; establishing tree group; with low branches extending over road by 2m at c.3.5m ht. These crowns need lifting to highway standard.	Good	Good	20	B2	3	None
G28	Plum; beech; hazel; yew.	Off	7-12	10	Yes	300	4	2	SM	Canopy of this dense group extends into road above garden fence at 2m ht; by c.3m. Needs crown-lifting to highways stndard.	Good	Good	20	B2	3.6	None
G29	Sycamore;	Off	12-14	4	Yes	500	3	5	EM	Multi stemmed; some stems have been felled. Remaining stems have been topped with poor condition regrowth.	Fair	Fair	10	C2	6	None
G30	Sycamore; horse chestnut; field maple	On	8-10	8	Yes	400	5	3	EM	Horse chestnut in private garden and linear scrub maple with cohesive crowns.	Good	Fair	20	B2	4.8	None
G31*	Hawthorn; hazel; field maple; common ash; willow; oak; holly	Off	4-10	10	Yes	250	4	2	EM	Cut back hard site side to clear back from power line. Dense bramble site side. Power line is not shown on topo.	Fair	Fair	10	C2	3	None
G32*	Common ash; willow; hazel	On	4-12	3	Yes	400	5	1	EM	Dense bramble and depression in ground site side. Multi stemmed ash is largest in group.	Good	Fair	20	B2	4.8	None
G33*	Common ash	On	7-10	3	Yes	300	5	5	EM	Close grown multi stemmed field boundary group. Cohesive crown. Stems closed to power line have been topped.	Good	Fair	20	B2	3.6	None
G34*	Holly; hazel; Pedunculate oak	Off	5-10	10	Yes	250	3	3	EM	Hazel coppice stools and multi stemmed holly and hawthorn with establishing oak	Good	Fair	20	B2	3	None

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height range (m)	No. of trees	Est diam?	Max stem diam (mm)	Av. Crown radius (m)	Avg. low crown height (m)	Life Stage	General Observations	Health & vitality	Structural condition	Estimated Remaining Contribution (Years)	BS5837 Category	RPA Radius (m)	TPO
G35*	Pedunculate oak; common ash	Off	15-20	4	Yes	850	7	5	M	High quality oaks with lower quality holly understorey. Lower quality ash growing through oak crown on north of group.	Good	Good	40	A2	10.2	None
G36*	Common ash; sycamore	On	10-12	2	Yes	300	5	5	EM	Close grown field boundary group. Cohesive crown. Ash is multi stemmed.	Good	Fair	20	B2	3.6	None
G37*	Common ash; field maple	On	10-12	6	Yes	300	5	5	EM	Close grown field boundary group.	Good	Fair	20	B2	3.6	None
G38*	Pedunculate oak	Off	13-15	2	Yes	550	6	2	EM	Cohesive crown. Dense bramble site side. Mechanical damage to bases.	Good	Fair	40	A2	6.6	None
G39	Common alder; hazel; common ash; crack willow	Off	6-20	200	Yes	550	5	3	EM	Predomi-tly alder growing either side of and within ditch. Some ivy clad stems. Extent of group on southern side is estimated.	Good	Fair	20	B2	6.6	None
G40	Common alder; hazel; willow	Off	6-15	15	Yes	400	5	3	EM	Predomi-tly alder growing either side of and within ditch. Some ivy clad stems.	Good	Fair	20	B2	4.8	None
G41*	Pedunculate ok; common ash; field maple	Off	12-17	10	Yes	750	6	2	M	Growing on ground sloping away from site. Some large pruning wounds on larger oaks.	Good	Good	40	A2	9	None
G42*	Pedunculate oak; common ash	Off	15-20	10	Yes	950	7	5	M	Off site growing on group sloping away from site.	Good	Good	40	A2	11.4	None
G43	Pedunculate oak; common ash; common alder; field maple; hawthorn; hazel; willow	On	6-20	150	Yes	650	6	5	M	Ditch to north separates group from site / trees growing in ditch with site on higher ground. Predomi-tly alder; some of which are multi stemmed. Some poor condition ash. Some gaps and dense bramble.	Good	Fair	20	B2	7.8	None
G44	Pedunculate oak	Off	16-18	9	Yes	700	7	6	M	Cohesive crowns. Adjacent to off site stone track.	Good	Good	40	A2	8.4	None
G45*	Common ash; hawthorn; holly; field maple	Off	10-13	5	Yes	200	4	5	SM	Scrub group with drawn up forms.	Fair	Fair	10	C2	2.4	None
G46	Pedunculate oak; common ash	Off	20-25	4	Yes	1000	8	5	M	Three large high quality oak with small lower quality ash. Track to west.	Good	Good	40	A2	12	None
G47*	Hazel; common alder; holly	Off	8-12	10	Yes	200	4	8	EM	Drawn up close grown forms growing in ditch.	Good	Fair	20	B2	2.4	None
G48	Common alder; common ash; holly; willow	On	8-16	15	Yes	500	5	0	EM	Predomi-tly multi stemmed alder.	Good	Fair	20	B2	6	None
G49	Common alder; crack willow; common ash	On	10-15	3	Yes	700	6	1	M	Alder closest to track: squat form and asymmetric crown due to adjacent willow. Reduced vitality. LM willow lapsed pollard with partially collapsed crown. Multi stemmed ash with deadwood and reduced vitality throughout crown. Group is growing in field boundary ditch. Potential for biodiversity value.	Poor	Poor	10	C3	8.4	None
G50*	Pedunculate oak	On	15-17	2	Yes	750	8	5	M	High quality oaks with cohesive crowns. Tarmac tack to west.	Good	Good	40	A2	9	None

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height range (m)	No. of trees	Est diam?	Max stem diam (mm)	Av. Crown radius (m)	Avg. low crown height (m)	Life Stage	General Observations	Health & vitality	Structural condition	Estimated Remaining Contribution (Years)	BS5837 Category	RPA Radius (m)	TPO
G51*	Common ash; crack willow	On	10-12	2	Yes	150	3	2	SM	Scrub group set to north of ASNW. Reduced vitality ash.	Fair	Fair	10	C2	1.8	None
G52*	Common alder; hazel	On	5-8	50	Yes	150	2	0	Y	Relatively new planting. Extent unclear on topo.	Good	Fair	20	C2	1.8	None
G53*	Hawthorn; common ash	Off	5-6	3	Yes	200	2	0	EM	EM multi stemmed hawthorn and two low quality young ash.	Fair	Fair	10	C2	2.4	None
G54	Common alder; hazel	Off	8-15	10	Yes	600	5	4		Multi stemmed alder and hazel coppice stools growing either side of field boundary ditch.	Good	Fair	20	B2	7.2	None
G55	Common alder; Pedunculate oak; common ash	On	8-17	10	Yes	650	5	0	EM	Multi stemmed alder; ivy clad oak and lower quality ash.	Good	Fair	20	B2	7.8	None
G56*	Hazel	On	5-7	15	Yes	250	4	0	M	Mature multi stemmed hazel coppice stools. Some reduced vitality.	Fair	Fair	10	C2	3	None
G57*	Common alder	On	12-15	5	Yes	550	5	4	M	Drawn up forms with some minor reduced vitality.	Good	Good	20	B2	6.6	None
G58*	Pedunculate oak; holly; common beech	Off	8-15	25	Yes	550	6	0	EM	Predomi-tly oak with scrub and holly understorey.	Good	Good	40	B2	6.6	None
G59	Common alder; hazel; holly	On	15-20	30	Yes	350	5	3	EM	Close grown larger alder with hazel and holly understorey.	Good	Fair	20	B2	4.2	None
G60*	Pedunculate oak	Off	12-15	6	Yes	600	6	4	M	Growing either side of wide ditch.	Good	Good	40	A2	7.2	None
G61*	Pedunculate oak; field maple	On	10-18	7	Yes	800	7	5	M	High quality oaks with lower quality field maple trees and holly understorey.	Good	Good	40	A2	9.6	None
G62*	Common alder; hazel; common ash	On	10-18	20	Yes	400	5	0	EM	Growing in depressed ground. Close grown stems.	Good	Good	20	B2	4.8	None
G63*	Pedunculate oak; field maple	On	15-19	2	None	700	7	5	M	High quality oak with suppressed mature field maple.	Good	Good	40	A2	8.4	None
G64*	Common alder; goat willow; hazel; pedunculate oak	On	10-15	20	Yes	500	5	0	EM	Growing in depressed ground. Close grown stems with some collapsed stems and some deadwood in crowns.	Good	Good	20	B2	6	None
G65*	Hazel; holly; common alder	On	4-6	15	Yes	200	3	1	M	Growing in depressed ground. Dense stems with bramble throughout.	Good	Fair	20	B2	2.4	None
G66	Pedunculate ok; common beech; common ash	On	15-18	6	Yes	750	7	6	M	Crown lifted and cut back site side with large pruning wounds.	Good	Fair	40	A2	9	None
G67	Silver birch; common alder; pedunculate oak; hazel	On	10-17	50	Yes	650	5	2	EM	Close grown varying condition some higher quality than others. Growing in old ditch / depressed ground with dense bramble either side. Some ivy clad stems. Some dead stems.	Good	Fair	20	B2	7.8	None

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height range (m)	No. of trees	Est diam?	Max stem diam (mm)	Av. Crown radius (m)	Avg. low crown height (m)	Life Stage	General Observations	Health & vitality	Structural condition	Estimated Remaining Contribution (Years)	BS5837 Category	RPA Radius (m)	TPO
G68*	Common alder; silver birch; holly	On	6-13	20	Yes	300	4	0	EM	Linear unmanaged close grown group growing in depression in ground.	Good	Good	20	B2	3.6	None
G69	Scot's pine; common ash; Pedunculate oak; common yew; hawthorn; holly	On	12-18	20	Yes	400	5	3	EM	Mostly Scot's pine. Poor quality ask on roadside.	Good	Fair	20	B2	4.8	None
G70	Pedunculate oak; common alder; field maple; sycamore; common ash	On	10-25	50	Yes	750	6	5	M	Some lower quality trees in group but overall cat A feature. Growing either side of field boundary ditch. Some collapsed stems and dense bramble and scrub understorey.	Good	Good	40	A2	9	None
G71	Birch; poplar; willow.	Off	8-12	10	None	200	2	3	SM	Establishing group. Mostly away from road; some cutting back needed.	Good	Good	20	B2	2.4	None
G72*	Pedunculate oak; field maple	Off	15-20	10	Yes	750	6	0	M	High quality oaks and smaller suppressed trees.	Good	Good	40	A2	9	None
G73*	Pedunculate oak; field maple; hazel	Off	5-15	10	Yes	400	5	0	EM	Established trees and roadside hedgerow with managed sides.	Good	Good	20	B2	4.8	None
G74	Pedunculate oak; common ash; silver birch	On	16-18	11	Yes	950	10	3	M	Predomi-tly oak with some lower quality birch and one multi stemmed ash.	Good	Good	40	A2	11.4	None
G75*	Apple; holly; hawthorn; common yew; elm; Pedunculate oak	Off	5-8	10	Yes	150	2	0	SM	Some dead elm. Close grown scrub group.	Fair	Fair	10	C2	1.8	None
G76*	Common ash	On	10-12	2	Yes	250	4	2	EM	Some reduced vitality.	Fair	Fair	10	C2	3	None
G77*	English oak; common ash	On	13-16	6	None	500	6	6	EM	Dense bramble site side. Holly and scrub understorey. Reduced vitality in ash.	Fair	Good	20	B2	6	None
G78*	Common alder; willow; hawthorn	On	6-8	11	Yes	220	3	1	SM	Multi stemmed establishing trees with dense bramble at bases.	Good	Fair	10	C2	2.6	None
G79*	Crack willow; hazel; common alder	On	8-12	15	Yes	200	2	1	SM	Scrub group of establishing trees.	Good	Fair	20	C2	2.4	None
G80*	Common alder; crack willow; holly	On	8-16	15	Yes	400	5	2	EM	Larger alder and establishing willows with scrub understorey. Some dead stems in group. Dense bramble site side.	Good	Good	20	B2	4.8	None
G81*	Common alder	On	14-16	2	Yes	400	5	8	EM	Poor quality; almost entirely dead trees. One is multi stemmed.	Poor	Poor	<10	U	4.8	None
G82*	Common alder; crack willow; holly; hawthorn	On	8-10	10	Yes	250	3	2	EM	Scrub section with some trees on field boundary. Some dead stems in group.	Fair	Fair	20	C2	3	None
G83*	Common alder; crack willow; holly	On	8-16	20	Yes	400	5	2	EM	Larger alder and establishing willows with scrub understorey. Some dead stems in group.	Good	Good	20	B2	4.8	None

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G84	Common ash; common alder; hazel; field maple; hawthorn.	On	12-18	40	Yes	400	6	3	M	Boundary tree group straddling stream running NE - SW. Predomi-tly alder. No significant signs of ash dieback on site side trees.	Good	Good	20	B2	4.8	None
G85	Common ash; common alder	On	12-17	10	Yes	550	6	3	M	Predomi-tly ash. No significant signs of ash dieback on site side trees; some reduced vitality evident on trees set back from site - assessed out of leaf.	Good	Fair	20	B2	6.6	None
G86*	Hazel; holly; hawthorn	On	5-10	10	Yes	150	3	1	EM	Mature low quality scrub.	Fair	Fair	10	C2	1.8	None
G87	Common alder; hawthorn; hazel	Off	8-13	10	None	250	4	0	EM	Low quality scrub group with failed stems and dense bramble and ivy.	Fair	Fair	10	C2	3	None
G88*	Common ash; blackthorn; hawthorn; hazel	On	5-14	10	Yes	600	5	1	M	Mature low quality ash with signs of ash dieback and scrub understorey.	Fair	Fair	10	C2	7.2	None
G89	Leyland cypress; blackthorn; hawthorn; common ash	On	5-12	10	Yes	500	4	1	M	Mostly unmanaged Leyland cypress with limited useful life expectancy.	Good	Fair	10	C2	6	None
G90	Goat willow; white willow; ash; hawthorn	On	5-7	6	None	120	5	1	SM	Along farm track and on field margin.	Good	Good	20	C2	1.5	None
G91*	Common alder; sycamore; hazel	On	6-20	30	Yes	600	5	4	M	Drawn up forms with some minor reduced vitality.	Good	Good	20	B2	7.2	None
G92	Ash; hazel; goat willow; sycamore; Holly; hawthorn	On	4-12	15	None	250	3	0	SM	Linear hedge like group.	Good	Good	40	B2	3	None
G93	Hazel; ash; sycamore; hawthorn; blackthorn	On	4-12	40	None	250	3	0	SM	Linear hedge like group.	Good	Good	40	B2	3	None
G94	Hazel; ash; sycamore; hawthorn; blackthorn	On	3-7	80	None	250	3	0	SM	Linear hedge like group.	Good	Good	40	B2	3	None
G95	Common alder; crack willow; hazel; hawthorn; holly; common ash	On	6-15	15	Yes	550	2	0	EM	Close grown Ivy clad stems. Growing in field boundary ditch.	Good	Fair	20	B2	6.6	None
G96	Hazel; ash; sycamore; hawthorn; blackthorn	On	4-12	40	None	250	3	0	SM	Linear hedge like group. Flailed sides.	Good	Good	40	B2	3	None
G97*	Hazel; holly	Off	4-6	5	Yes	180	3	0	M	Mature hazel coppice stools.	Good	Fair	10	C2	2.2	None
G98*	Common ash	On	17-19	2	Yes	900	10	2	M	TPO T64; T65; T66 Monmouthshire. Two large ash with smaller lower quality ash growing between. Assessed out of lead but no signs of ash dieback. Ditch to south.	Good	Good	20	A2	10.8	Yes
G99*	Field maple; hawthorn; common alder	On	5-10	5	Yes	250	3	1	EM	Suppressed forms; reduced vitality. Ivy clad stems and crowns.	Fair	Fair	10	C2	3	None

** tree location approximate*

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CLIENT: TOTAL ENERGIES

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G100*	Pedunculate oak; hazel; hawthorn	On	6-10	5	Yes	220	3	3	M	Mature hazel coppice stools with SM oak.	Good	Fair	20	C2	2.6	None
G101*	Crack willow; common alder; hazel; hawthorn	On	4-10	5	Yes	300	3	1	EM	Partially collapsed willow likely to continue to grow. Establishing alder with codomi-t leaders. Scrub understorey.	Fair	Fair	10	C2	3.6	None
G102	Ash	On	13-17	3	None	650	5	5	EM	High future potential if resistant to ash dieback disease.	Good	Good	40	B2	7.8	None
G103	Field maple; hazel; hawthorn; blackthorn; Holly; elder; alder	On	3-7	30	None	150	3	0	EM	Bramble clad group.	Good	Good	40	B2	1.8	None
G104	Field maple; hazel; hawthorn; blackthorn	On	3-7	10	None	150	3	0	EM	Bramble clad group.	Good	Good	40	B2	1.8	None
G105	Field maple; hazel; hawthorn; blackthorn; Holly; sycamore; ash	On	3-7	40	None	150	3	0	EM	Outgrown hedgerow.	Good	Good	40	B2	1.8	None
G106*	Common alder; crack willow; common ash; hazel; holly	On	8-16	100	Yes	550	5	1	M	Predomi-tly alder and willow. Some willow have partially collapsed but likely to regrow. Growing within and either side of field boundary ditch.	Good	Fair	20	B2	6.6	None
G107	Crack willow; common alder	On	5-10	30	Yes	150	3	2	SM	Close grown drawn up establishing trees. Predomi-tly willow.	Fair	Fair	10	C2	1.8	None
G108*	Hazel; holly; alder; oak.	Off	6-16	20	Yes	750	5	5	M	Part of TPO A4 Monmouthshire. Riverine tree group; stream running NW-SE down to road. Some gaps in group.	Good	Fair	40	B2	9	Yes
G109	Ash; sycamore; hawthorn.	Off	3-11	4	Yes	250	5	2.5	SM	Establishing roadside group. Ash has limited early signs of dieback; but is vital.	Good	Good	20	B2	3	None
G110	Hazel; field maple; white willow; hawthorn.	On	3-14	14	None	500	4	1	EM	Mixed group on field margin.	Good	Good	40	B2	6	None
G111	Sycamore	On	5-7	3	None	240	3	3	SM	Two of the three trees are dying. Low future potential. Within hedgerow.	Good	Good	40	C2	2.9	None
G112	Oak; ash; sycamore; hawthorn; hazel; Holly;	On	4-19	30	None	700	5	3	EM	Group includes T51 and T51 TPOs Monmouthshire. Majority of understory is oak with some sycamore and ash. Other species make up scrubby understory. Makes up larger linear group.	Good	Good	40	A2	8.4	Yes
G113	Ash; Holly; hazel; hawthorn	On	4-7	15	None	250	3	0	EM	Outgrown hedgerow. Flailed sides.	Good	Good	40	B2	3	None
G114	Ash	On	12-14	2	Yes	350	5	5	SM	Multi-stemmed trees with cohesive canopy.	Good	Good	20	B2	4.2	None

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G115	Oak; Rowan; cherry	On	6-7	3	None	900	2	3	SM	T77 TPO Monmouthshire likely relating to oak only. One large dead oak tree with a substantial sized Rowan growing from the crown. Cherry tree growing in close proximity. Creates interesting and diverse tree group.	Fair	Fair	20	B2	10.8	Yes
G116	Scots pine; oak; elm; Holly; hawthorn	On	4-19	30	None	700	5	3	EM	Mature Scot pine over story with other species making up understory.	Good	Good	40	A2	8.4	None
G117	Ash	On	5-6	2	None	140	2	2	Y	Young hedgerows trees.	Good	Good	20	C2	1.7	None
G118	Oak; sycamore; ash; cherry	On	4-19	40	None	800	4	3	EM	Larger old oaks to south of group. More sycamore dominated to north.	Good	Good	40	A2	9.6	None
G119	Holly; Damien; ash; blackthorn; hawthorn	On	4-19	30	None	350	4	0	EM	Hedge-like; dense group.	Good	Good	40	B2	4.2	None
G120	Hazel; hawthorn; Holly; elm; dogwood	On	4-6	5	None	250	3	1	SM	Flailed sides; makes up larger hedgerow. Dead elm present.	Good	Good	40	B2	3	None
G121	Ash; oak; hazel; elder; holly; hawthorn.	On	8-20	15	Yes	950	8	1.5	M	Part of G10 TPO Monmouthshire. 1 large; mature oak; 2 large; mature ash; with an understory of hawthorn; hazel and holly. Very minimal dieback in ash.	Good	Good	40	A2	11.4	Yes
G122	Oak; ash; sycamore; hazel; hawthorn;	On	3-17	20	None	500	4	5	EM	Sycamore and oak over story with scrubby understory of other species.	Good	Good	40	B2	6	None
G123	Oak; hazel; hawthorn.	On	16-19	2	Yes	550	8	5	M	2 large oak with a understory of hazel and hawthorn.	Good	Good	40	B2	6.6	None
G124	Oak; hazel; hawthorn; elm; field maple.	On	8-17	10	Yes	800	6	1	EM	Part of G10 TPO Monmouthshire. Wind damage to 2 EM oaks has created a gap in the centre of this group. One of these oaks has poor vitality.	Fair	Fair	20	B2	9.6	Yes
G125	Grey willow; elm.	On	6-8	10	Yes	350	5	0.5	EM	Lapsed coppice section; with multiple stems.	Good	Good	20	B2	4.2	None
G126	Holly; hazel; ash	On	4-10	25	Yes	250	3	1	EM	Outgrown hedgerow group.	Good	Good	20	B2	3	None
G127	Ash; oak; hazel; alder; holly; hawthorn.	On	8-19	15	Yes	950	8	1.5	M	Includes TPO T99; T100; T101; T102; A2 and G13 Monmouthshire. 2 large; mature oak; 1 large; mature ash and alder; with an understory of hawthorn; hazel and holly. Very minimal dieback in ash.	Good	Good	40	A2	11.4	Yes
G128	Common ash; hawthorn	On	5-12	5	Yes	400	5	3	EM	Multi stemmed roadside ash and outgrown understorey hawthorn.	Good	Fair	20	B2	4.8	None
G129	Common ash; holly; hawthorn	On	5-10	10	Yes	250	3	2	SM	Predomi-tly ash. Some reduced vitality. Linear planting on field edge with track to east off site.	Fair	Fair	10	C2	3	None
G130*	Common ash; hazel	On	7-10	4	Yes	250	3	2	SM	Ash growing through abandoned mobile home.	Fair	Fair	10	C2	3	None
G131*	Common ash	On	12-14	3	Yes	250	3	5	EM	Multi stemmed ash. Reduced vitality.	Fair	Fair	10	C2	3	None

** tree location approximate*

TREE SURVEY SCHEDULE

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PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

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G132	Hazel; field maple; elm; alder	On	4-7	30	Yes	200	3	0	EM	Predomi-tly hazel coppice stools with SM trees growing through.	Fair	Fair	20	C2	2.4	None
G133*	Common alder	Off	13-16	2	Yes	400	5	5	EM	One failed stem. Suppressed forms but overall good conditions.	Good	Fair	20	B2	4.8	None
G134	Blackthorn; hazel; Norway maple.	On	7-8	5	Yes	120	2.5	0	EM	Lapsed hedgerow. Minimal spread into road <0.5m.	Good	Good	20	B2	1.5	None
G135	Sycamore; hawthorn; ash.	Off	7-12	8	Yes	150	3	2.5	SM	Establishing boundary group.	Good	Good	20	B2	1.8	None
G136	Norway maple.	On	9-11	3	Yes	300	6	4	SM	Establishing group of trees reservoir land; set back by 4m from road.	Good	Good	20	B2	3.6	None
G137	Oak; alder.	Off	12-14	2	Yes	550	6	2	EM	Establishing trees growing on bank 1.5m above road.	Good	Good	40	B2	6.6	None
G138	Blackthorn; field maple; ash; hawthorn.	Off	5-10	5	None	330	4	2	EM	Group managed on roadside side.	Good	Good	20	B2	3.9	None
G139*	Common ash	On	8-13	8	Yes	300	4	2	EM	Low quality self set ash on edge of group. Multi stemmed larger ash.	Good	Fair	20	B2	3.6	None
G140	Silver birch; Pedunculate oak; hawthorn; common ash	On	6-14	30	Yes	300	5	3	EM	Predomi-tly birch and oak on lower ground than main site area.	Good	Good	40	B2	3.6	None
G141*	Crack willow; Pedunculate oak; haze; common ash	Off	6-8	5	Yes	200	4	0	EM	Scrub group with poor forms and reduced vitality smaller	Poor	Fair	10	C2	2.4	None
G142	Pedunculate oak	Off	14-18	3	None	800	8	3	M	Cohesive crowns. Scrub understorey. Some deadwood in crowns. Lower quality tree recorded individually.	Good	Good	40	A2	9.6	None
G143	Pedunculate oak; common ash; common alder; crack willow; hazel	On	15-20	100	Yes	750	6	0	M	Predomi-tly multi stemmed alder. Some close grown and drawn up stems. Growing either side and within field boundary ditch. Good landscape feature.	Good	Fair	40	B2	9	None
G144	Pedunculate oak; common ash	On	15-18	5	None	800	7	1	M	Three good quality oak and reduced vitality smaller ash.	Good	Good	40	A2	9.6	None
G145	Pedunculate oak	On	14-16	2	None	900	8	2	M	Cohesive crowns. High quality large oaks. Scrub understorey.	Good	Good	40	A2	10.8	None
G146	Pedunculate oak	On	14-17	2	None	1000	8	2	M	Cohesive crowns. High quality large oaks.	Good	Good	40	A2	12	None
G147*	Field maple; hawthorn	On	6-9	3	None	400	5	1	M	Two larger field maple with dead tree unlikely to impact site and smaller hawthorn.	Good	Fair	20	B2	4.8	None
G148	Pedunculate oak	On	14-17	2	None	950	9	2	M	Cohesive crowns. High quality large oaks.	Good	Good	40	A2	11.4	None
G149	Hawthorn; hazel; blackthorn	On	6-10	10	Yes	300	3	0	LM	Late mature unmanaged linear group.	Fair	Fair	10	C2	3.6	None
G150	Common ash; English oak; hornbeam	On	15-20	6	None	750	7	2	M	Predomi-tly oak with characterful hornbeam.	Good	Good	40	A2	9	None

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TREE SURVEY SCHEDULE

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G151	English oak; common ash	Off	15-17	3	Yes	750	6	4	M	Cohesive crowns growing on either side of field boundary ditch.	Good	Good	40	A2	9	None
G152	Common alder; crack willow; common ash; goat willow; Pedunculate oak	Off	6-18	50	Yes	600	5	2	EM	Predomi-tly alder growing on field boundary. Some close grown and drawn but otherwise good landscape feature. Growing either side of field boundary ditch.	Good	Good	20	B2	7.2	None
G153	Pedunculate oak; common ash; common beech; holly; hazel	Off	15-20	15	Yes	800	7	4	M	Cohesive crowns. Growing on site side of road. Predomi-tly oak. Reduced vitality in ash.	Good	Good	40	A2	9.6	None
G154	Hazel; hawthorn	On	6-8	10	Yes	200	3	0	M	Mature hazel coppice stools on site side of road.	Good	Fair	10	C2	2.4	None
G155	Field maple	On	6-8	3	Yes	200	3	0	EM	Scrub group; suppressed form on site side of road. Ivy clad stems.	Fair	Fair	10	C2	2.4	None
G156	Pedunculate oak; sycamore	Off	13-18	3	Yes	600	6	2	EM	Two high quality oak with lower quality sycamore between. Growing on site side of road.	Good	Good	40	A2	7.2	None
G157	Field maple; holly; hazel; hawthorn	On	6-8	5	Yes	200	3	0	EM	Scrub group; suppressed form on site side of road. Ivy clad stems.	Fair	Fair	10	C2	2.4	None
G158	Hazel; ash; field maple; hawthorn; oak; holly;	On	8-16	400	Yes	750	5	4	EM	Well-established; roadside; outgrown-hedgerow group; sitting on bank 1m above road. Part.managed up to 3m. Spreading over road and needing lifting in places to highway standard. Average hedgerow height 5m; some individuals up to 16m.	Good	Good	40	B2	9	None
G159	Hawthorn; hazel; elder	On	6-8	40	Yes	300	3	0	LM	Late mature unmanaged linear group with some decay; and potential for habitat value. Larger trees recorded individually.	Fair	Fair	10	C2	3.6	None
G160	Common ash; hazel; field maple; hawthorn	On	5-12	20	Yes	350	3	0	EM	Growing in field boundary ditch.	Good	Fair	20	C2	4.2	None
G161	Common alder; hazel; crack willow; goat willow	On	4-18	50	Yes	650	5	0	M	Predomi-tly multi stemmed alder with some collapsed willow. Group is growing either side of field boundary ditch.	Good	Fair	20	B2	7.8	None
G162*	Pedunculate oak	On	18-20	2	None	900	7	2	M	Cohesive crowns. Some reduced vitality on northern tree which is also ivy clad.	Good	Good	40	A2	10.8	None
G163	Hawthorn; hazel; elder; Pedunculate oak	On	6-8	40	Yes	300	3	0	LM	Late mature unmanaged linear group with some decay; and potential for habitat value. Larger trees recorded individually.	Fair	Fair	10	C2	3.6	None
G164	Goat willow; hawthorn	On	6-10	5	Yes	400	4	0	M	Two mature multi stemmed willow and scrub hawthorn.	Good	Fair	20	B2	4.8	None
G165	Hawthorn; hazel; blackthorn; goat willow	On	6-10	10	Yes	400	3	0	M	Mature low quality collapsed willow and scrub hawthorn.	Fair	Fair	10	C2	4.8	None
G166	Pedunculate oak	On	11-13	2	None	480	6	2	EM	Cohesive crown.	Good	Good	40	B2	5.8	None

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height range (m)	No. of trees	Est diam?	Max stem diam (mm)	Av. Crown radius (m)	Avg. low crown height (m)	Life Stage	General Observations	Health & vitality	Structural condition	Estimated Remaining Contribution (Years)	BS5837 Category	RPA Radius (m)	TPO
G167	Pedunculate oak; common alder; holly; hazel	On	6-20	70	Yes	750	6	1	M	High quality oaks with alder and understorey.	Good	Good	40	A2	9	None
G168	Hazel; hawthorn; common ash	On	6-10	10	Yes	400	3	0	M	Multi stemmed coppice stools.	Fair	Fair	10	C2	4.8	None
G169	Pedunculate oak; common alder; hazel; holly	On	6-18	70	None	750	6	3	M	Good quality mixed group with holly and hazel understory.	Good	Good	40	A2	9	None
G170*	Ash; hawthorn; hazel; holly; blackthorn	On	2-16	30	None	600	6	1.5	M	Outgrown hedge / thicket with established ash; good vigour throughout crowns; sloping site	Good	Fair	40	B2	7.2	None
G171*	Alder; ash; oak; beech; hawthorn; hazel; holly; elder	On	5-18	25	None	700	7	2.5	M	Mature alder; ash; oak & beech; other species occur as outgrown hedge / understory; good vigour throughout crowns; lite ivy cover to stems; ditch to N	Good	Fair	40	B2	8.4	None
G172	Pedunculate oak	On	18-20	3	None	1300	10	1	M	Notable trees with cohesive crowns. Large old tearout wound in tree on west of group.	Good	Good	40	A2	15	None
G173*	Alder; hawthorn; hazel; elder	On	5-18	15	None	660	6	2.5	M	Mature alder; other species occur as outgrown hedge / understory; good vigour throughout crowns; lite ivy cover to stems; ditch to N	Good	Fair	40	B2	7.9	None
G174*	Pedunculate oak; common ash; common alder	Off	5-9	15	None	180	3	1	SM	Close grown establishing trees with some mechanical damage.	Good	Fair	10	C2	2.2	None
G175*	Oak; ash; hawthorn; hazel; holly	Off	2-19	30	None	900	8	2.5	M	Mature oak x7 & ash x1; other species occur as outgrown hedge / understory; good vigour throughout crowns; 1x tree to W of plot shows a single stem failure with debris on ground to S	Good	Fair	40	B2	10.8	None
G176	Hawthorn; field maple; elder; oak.	On	5-12	40	Yes	450	3	0.75	EM	Mostly lapsed hedgerow maple and hawthorn; grazed to 0.75m by livestock.	Good	Good	20	B2	5.4	None
G177	Oak.	Off	13-15	2	Yes	420	7	6	EM	Group of 2 roadside trees with contiguous canopy.	Good	Good	40	B2	5	None
G178	Silver birch; sycamore; field maple.	Off	12-16	20	None	300	5	1.5	EM	Group of establishing birch and field maple set back from road.	Good	Good	20	B2	3.6	None
G179	Oak; ash; field maple; birch; willow; plum; hazel;	Off	8-17	750	Yes	600	7	4	EM	Establishing mixed-broadleaf group on edge of reservoir.	Good	Good	40	B2	7.2	None
G180*	Oak	On	15 - 17	2	None	650	7	2	EM	Close grown trees with forming a slightly disjointed crown; stem to S is multi stemmed	Good	Fair	40	B2	7.8	None
G181*	Hybrid black poplar; crack willow; ash	On	14 - 18	5	None	910	8.5	3	M	Poplar x1; willow x2 & small ash x2; poplar dominates plot & historical storm damage shows loss of main stem @8.5m; other stems show signs of damage which likely occurred as the same time; good re-gen within crown of poplar which is developing into an ungainly shape	Good	Fair	20	B2	10.9	None
G182*	Oak	On	12-16	4	None	540	6	2	SM	Established hedge trees; typical for age & species	Good	Fair	40	B2	6.5	None

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height range (m)	No. of trees	Est diam?	Max stem diam (mm)	Av. Crown radius (m)	Avg. low crown height (m)	Life Stage	General Observations	Health & vitality	Structural condition	Estimated Remaining Contribution (Years)	BS5837 Category	RPA Radius (m)	TPO
G183*	Oak	On	14-18	2	None	800	7.5	3	EM	Close grown trees with larger stem to N being domi-t; stem to S is laterally suppressed with stem & crown showing non-progressive lean to W	Good	Fair	40	B2	9.6	None
G184	Hazel; ash; field maple; hawthorn; oak; holly;	On	7-12	200	Yes	300	3.5	4	EM	Roadside; outgrown-hedgerow group; sitting on bank 0.3m above road. Part.managed up to 3m. Spreading over road making a tunnel with opposite group and needing lifting in places to highway standard.	Good	Good	40	B2	3.6	None
G185	Oak;ash; willow; hawthorn; hazel; elder; prunus sp.; holly.	On	7-16	40	Yes	280	3	1.5	EM	Sample inspected between hedge-line and service land fence. Some clearance work under power lines. Good vigour in places; scrappy in others.	Good	Good	20	B2	3.3	None
G186	Sycamore; goat willow.	On	11-14	5	Yes	450	6	0.5	EM	Establishing group of healthy trees.	Good	Good	40	B2	5.4	None
G187	Hazel; ash; hawthorn; blackthorn; willow.	Off	7-12	50	Yes	150	2	0.5	EM	Dense; lapsed-coppice group.	Good	Good	20	B2	1.8	None
G188	Oak; ash.	Off	9-13	2	Yes	330	6	2.5	EM	Boundary trees along field hedgeline.	Good	Good	40	B2	3.9	None
G189	Hazel; hawthorn; blackthorn; plum; elm; dogwood.	Off	4-8	75	Yes	120	3	0	EM	Scrubby; sprawling; lapsed hedgerow.	Good	Good	20	B2	1.5	None
G190	Hazel; ash; hawthorn; blackthorn; willow.	Off	7-12	50	Yes	150	2	0.5	EM	Dense; lapsed-coppice group.	Good	Good	20	B2	1.8	None
G191	Oak; ash; field maple; wild cherry; hawthorn; holly.	On	11-16	25	None	850	8	2	M	Predomi-tly large oaks (8) and ash (4); one oak with substantive cavities has failed at 4m.	Good	Good	40	B2	10.2	None
G192	Oak.	On	12-14	2	Yes	750	7	3	EM	2 boundary trees with contiguous canopy.	Good	Good	40	B2	9	None
G193	Sycamore; oak.	On	15-17	3	Yes	750	8	3	M	Hedge line group straddling ditch/ stream; sharing contiguous canopy. Some crevices and small cavities in the 2 larger stems.	Good	Good	40	B3	9	None
G194	Alder	On	13-15	2	None	670	6	1	M	2 trees with contiguous canopy. One tree has cavities on stem up to 5m; the other at base of stem and under buttresses.	Good	Good	20	A3	8	None
G195	Crack willow.	On	12-17	3	None	500	6	2	M	Close-grown trees forming a cohesive crown. A couple of felled stems. Stem to N showing signs of root-heave with visible root damage and dead upper stem.	Good	Good	20	B2	6	None
G196	Alder	On	15-17	2	None	820	6	2	M	Growing E of ditch. Basal cavities on both trees.	Good	Good	20	B2	9.8	None
G197	Willow; alder; hazel; hawthorn.	On	7-19	10	None	350	7	1.5	M	Lapsed hedgerow with established willow and alder. Nb some willows are starting to fail with stems hung up in neighbouring trees - these could benefit from re-pollarding. Ditch to S.	Good	Fair	20	B2	4.2	None

** tree location approximate*

TREE SURVEY SCHEDULE

PROJECT NO: 6548

SITE NAME: CANDWR SOLAR FARM

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height range (m)	No. of trees	Est diam?	Max stem diam (mm)	Av. Crown radius (m)	Avg. low crown height (m)	Life Stage	General Observations	Health & vitality	Structural condition	Estimated Remaining Contribution (Years)	BS5837 Category	RPA Radius (m)	TPO
G198	Willow; alder; hazel; hawthorn.	On	7-19	10	None	350	7	1.5	M	Lapsed hedgerow with established willow and alder. Nb some willows are starting to fail - these could benefit from re-pollarding. Ditch to S. Willow dbh 1750mm see separate plot.	Good	Fair	20	B2	4.2	None
G199	Hazel; hawthorn; sycamore; willow.	Off	8-12	25	Yes	200	3	0.5	EM	Managed roadside group; flailed back from road up to 4m.	Good	Good	20	B2	2.4	None
G200	Common alder; common ash.	Off	12-14	2	Yes	500	5	4	M	Roadside multi-stemmed EM ash looks healthy and managed at road up to 4m. Multi-stemmed mature alder is further away from road and has small dieback.	Fair	Good	20	B2	6	None
G201	Willow; hazel; ash; hawthorn.	Off	7-9	15	Yes	150	2	0.5	EM	Thick roadside group.	Good	Good	20	B2	1.8	None
G202	Willow; hazel; ash; elder; hawthorn.	Off	7-9	25	Yes	150	2	0.5	EM	Thick roadside group growing on other side of stream running along east side of road.	Good	Good	20	B2	1.8	None
G203	Hazel; blackthorn; elder; dog rose;	On	4-6	10	Yes	100	2.5	0.5		Lapsed hedgerow group.	Good	Good	20	B2	1.3	None
G204	Hazel; blackthorn; elder; dog rose;	On	4-7	5	Yes	100	2.5	0.5		Lapsed hedgerow group.	Good	Good	20	B2	1.3	None
G205	Hawthorn; hazel.	On	5-8	4	Yes	350	3	1.5	M	Scrubby group.	Good	Good	20	B2	4.2	None
G206	Willow; ash; hawthorn.	Off	12-15	25	Yes	300	5	1.5	EM	Thick group away from road.	Good	Good	20	B2	3.6	None
G207	Hawthorn; willow; alder; ash; field maple; elder.	Off	4-14	40	Yes	200	3	0.5	SM	Part of G15 TPO; Monmouthshire. Straggly tree group occasionally straddling stream running alongside road; (mostly on other side of stream from road); with a couple of pollarded willows growing up to 14m. Average height 8m.	Good	Fair	20	B2	2.4	Yes
G208	Ash; hawthorn; oak.	Off	10-12	20	Yes	250	3	1	SM	Establishing group of trees screening housing development.	Good	Good	20	B2	3	None
G209	Ash	Off	5-6	5	Yes	75	2	1	Y	Establishing but scrubby riverine group.	Good	Good	10	B2	1	None
G210	Hazel; hawthorn; cherry; willow	On	7-11	50	Yes	100	4	1	M	Outgrown;multi-stemmed; hazel hedge-line feature; abutting treatment works fence. Woodland on N side of fence also contains birch.	Good	Good	20	B2	1.3	None
G211	Alder; willow; poplar; wild cherry; oak.	Off	17-21	20	Yes	850	8	5		Mature group with ivy-clad stems; one or two of which have snapped by wind. Very scant understory includes several young oak.	Good	Fair	20	B2	10.2	None
G212*	Cherry; hawthorn	Off	8-12	10	Yes	300	4	2.5	EM	Ditch to N; off-site trees on site boundary; cursory inspection	Good	Fair	20	B2	3.6	None
G213	Lawson's cypress.	Off	21-24	3	Yes	1500	7	1	M	3 very tall conifers growing on boundary; with contiguous canopy. Some bottom stems splaying out; down onto site field.	Good	Good	40	B2	15	None

** tree location approximate*

TREE SURVEY SCHEDULE

PROJECT NO: 6548

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SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Height range (m)	No. of trees	Est diam?	Max stem diam (mm)	Av. Crown radius (m)	Avg. low crown height (m)	Life Stage	General Observations	Health & vitality	Structural condition	Estimated Remaining Contribution (Years)	BS5837 Category	RPA Radius (m)	TPO
G214*	Alder; hazel; hawthorn	On	7-15	20	None	520	6	2	M	Part of group is within TPO G21 Monmouthshire. Ditch to E; outgrown hedge with established multi stemmed alder	Good	Fair	20	B2	6.2	None
G215*	Alder	On	17 - 18	3	None	810	6	2	EM	Ditch to E; smallest stem close grown with stem to S both of which are seated in ivy; laterally suppressed by mature off-site oak	Good	Fair	20	B2	9.7	None
G216*	Oak; alder	On	15 - 18	4	Yes	800	7.5	3	M	G22 TPO; Monmouthshire. Ditch to S; close grown trees with a reasonably cohesive crown which is dominated by central oak	Good	Fair	40	B2	9.6	Yes
G217*	Scot's pine	On	15-17	5	None	500	4	2	EM	Established on boundary; bark damage to lower stems; dead tree to N of group (see OOS record). Recommend dead stem is felled	Good	Fair	40	B2	6	None
G218*	Downy birch	Off	15-17	2	Yes	400	5	3.5	EM	Established on boundary; stem to W shows dieback to main leader / mid-crown; visible cavities to N; good habitat value; tree will need attention in short to mid-term	Fair	Fair	20	B2	4.8	None
G219	Hazel; willow; ash; alder; field maple; hawthorn.	On	7-13	12	Yes	350	4	2	EM	Mixed group growing on corner of fields; where public footpath crossed boundary.	Good	Good	20	B2	4.2	None
G220	Alder	On	21-23	3	None	530	6	3	M	3 very fall on-site trees (rest of woodland is off-site) in flood plain. Contiguous canopy with 2 other neighbouring off-site alder.	Good	Good	20	B2	6.4	None
G221	Hazel; ash.	On	7-18	4	None	350	5	1.5	M	Multistem-stem hazel and ash; spread out on boundary line. Flooding evidence at base of trees. Ash has fair vitality.	Fair	Good	20	B2	4.2	None
G222	Pedunculate oak	On	5-7	3	Yes	300	3	2	SM	Growing between fence lines. One oak is twin stemmed at base. Topped beneath power lines.	Fair	Fair	20	C2	3.6	None
G223*	Goat willow; common ash; field maple; hazel; English oak	Off	5-10	10		260	2	1	SM	Scrub group; predomi-tly ash and willow. Mostly off site. Western extremity may just extend into site. Not on topo.	Good	Fair	20	C2	3.1	None
G224*	Osier; goat willow	Off	5-10	10	Yes	150	2	1	EM	Multi stemmed scrub group; osier. Stems have been regularly cut back to stubs on SE to maintain away from site. Some gaps and dense bramble. Some lichen on older osier stems. Not on topo.	Good	Fair	20	C2	1.8	None
G225*	Goat willow; Pedunculate oak	On	7-8	2	Yes	350	4	0	EM	Multi stemmed EM willow with small SM oak growing through crown. Both close to fence. Not on topo.	Good	Fair	20	B2	4.2	None
G226	Goat willow; osier; grey willow; oak	On	4-8	200	Yes	200	2	0	SM	Dense multi stemmed group growing between field and water treatment works grounds. Some small oaks may establish as distinct trees in future.	Good	Fair	20	C2	2.4	None

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G227*	Ash	On	14-16	2	None	420	6	3	SM	Close grown twin-stemmed trees forming a cohesive crown; both trees show S2 of Ash DieBack (ADB); gates to N & E of root plate	Fair	Fair	20	C2	5	None
G228*	Sycamore	On	15-16	2	Yes	500	6	2.5	SM	Stem to W dominates; lite ivy cover to both stems	Good	Fair	20	B2	6	None
G229*	Ash	On	10-13	2	None	250	3	3	SM	Both trees show Stage 1 of Ash DieBack (ADB); gate to SE of root plate; lite ivy cover to both stems	Fair	Fair	20	C2	3	None
G230*	Ash	On	13-15	2	None	360	5	2.5	SM	Close grown trees forming a cohesive crown; lite ivy cover to both stems	Good	Fair	20	B2	4.3	None
G231*	Ash	On	12-13	3	None	300	3.5	3	SM	Middle tree shows Stage 2 of Ash DieBack (ADB); lite ivy cover to outer stems	Fair	Fair	20	C2	3.6	None
G232*	Ash	On	9-15	7	Yes	400	5	3	SM	Middle tree & tree to SE both show Stage 1 of Ash DieBack (ADB); lite ivy cover to 4x trees to NW	Fair	Fair	20	C2	4.8	None
G233*	Oak	On	18 - 20	3	Yes	1090	9	3	M	Established to S of hedge-bank; historical storm damage noted to all stems with damaged stubs & associated pockets of decay; good vigour throughout all crowns	Good	Fair	40	A2	13.1	Yes
G234*	Ash; oak	On	6-16	3	Yes	370	6	3	SM	Close grown trees; oak to SE laterally suppressed by ash; lite ivy cover to all stems	Good	Fair	20	B2	4.4	None
G235*	Oak; sycamore; blackthorn; hawthorn; hazel; holly	Off	2 - 20	11	Yes	1100	9	3	M	Off-site grove of trees (oak & sycamore) within private garden; single & multi-stemmed forms; hedge around boundary which is patchy due to being shaded out by the mature trees	Good	Fair	40	A2	13.2	Yes
G236*	Alder	On	16-18	9	Yes	700	6	3	M	Close grown trees forming a cohesive crown; open drain to NW	Good	Fair	20	B2	8.4	None
G237*	Alder	On	16-18	4	Yes	650	6	2.5	M	Close grown trees forming a cohesive crown; open drain runs through plot	Good	Fair	20	B2	7.8	None
G238*	Wild cherry; hawthorn; hazel	On	6-16	8	Yes	550	6	2.5	M	Close grown trees forming a cohesive crown; open drain runs through plot; thorn & hazel occur as understory / neglected hedge	Good	Fair	20	B2	6.6	None
G239*	Alder; ash; hawthorn; hawthorn; hazel; holly; elder	On	5-16	25	Yes	650	7	2.5	M	Close grown single & multi-stemmed trees forming a cohesive crown; open drain runs through plot; thorn etc occur as understory / neglected hedge	Good	Fair	40	B2	7.8	None
G240*	Goat willow; alder; crack willow; hawthorn; hazel; holly; elder	On	5-16	30	Yes	650	7	2.5	M	Close grown single & multi-stemmed trees forming a cohesive crown; open drain runs through plot; thorn etc occur as understory / neglected hedge	Good	Fair	40	B2	7.8	None
G241*	Alder; hawthorn; blackthorn; goat willow; elder	On	16-18	8	Yes	630	6	3	M	Close grown trees forming a cohesive crown; open drain runs through plot; field gate to SW; thorn etc occur as understory / neglected hedge	Good	Fair	20	B2	7.6	None

** tree location approximate*

TREE SURVEY SCHEDULE

PROJECT NO: 6548

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G242*	Crack willow; alder	On	15-17	2	Yes	600	6	2.5	M	Close grown trees forming a cohesive crown; open drain to NW of plot	Good	Fair	20	B2	7.2	None

WOODLANDS

Ref	Species	On/off site	Height range (m)	No. of trees	Est diam?	Max stem diam (mm)	Av. Crown radius (m)	Avg. low crown height (m)	Life Stage	Special importance	General Observations	Health & vitality	Structural condition	Estimated Remaining Contribution (Years)	BS5837 Category	RPA Radius (m)	ASNW or ARW buffer (m)	TPO
W1	Common alder; common ash; Pedunculate oak; crack willow; hawthorn; blackthorn	On	10-25	250	Yes	750	6.0	5.0	M	ASNW	Assigned A3 owing to ASNW classification - otherwise would be 'B'. Some dead stems and poor condition ash but overall good condition woodland. Could be improved with some understorey planting. Predomi-tly alder	Good	Fair	40	A3	9.0	20.0	None
W2	Pedunculate oak; common ash; holly; hawthorn; common alder; Norway spruce	On	6-25	300	Yes	800	6.0	0.0	M	None	High quality oak and alder on periphery of woodland site sides. Forestry style planting further into woodland consisting on spruce. Woodland assessed from edges only.	Good	Good	40	A2	9.6	-	None
W3*	Oak; alder; ash; holly; hazel	Off	5-20	1000	Yes	1500	5.0	0.5	M	ASNW	Woodland TPO W2 Monmouthshire. ASNW. Stream runs NE-SW at valley bottom.	Good	Good	40	A2	15.0	20.0	Yes
W4	Silver birch; oak; cherry plum; sycamore; wild cherry; ash; hazel.	On	6-15	150	Yes	350	5.0	5.0	SM	None	Establishing mixed-species reservoir plantation group	Good	Good	40	B2	4.2	-	None
W5	Ash; alder; oak; field maple; beech; downy birch; hawthorn; hazel; holly; elder	On	2 - 20	75	None	920	8.0	1.5	M	None	Predomi-tly ash; oak & beech with alder; maple & birch; other species occur as developed understory; sloping site (downhill to N); beech failure to approx middle of plot with debris on ground; adjacent beech shows basal cavity & associated decay; extensive sleep trails through plot	Good	Fair	40	A2	11.0	-	None
W6	Oak; holly; hazel; hawthorn; dogrose; elder	Off	1 - 20	25	Yes	800	8.0	0.0	M	ASNW	Off-site woodland plot part of which is designated ASNW; sample recorded where plot abuts survey area; cursory inspection from boundary; good vigour throughout crowns	Good	Good	40	A3	9.6	20.0	None

** tree location approximate*

TREE SURVEY SCHEDULE

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Barton Hyett
Arboricultural Consultants

Ref	Species	On/off site	Height range (m)	No. of trees	Est diam?	Max stem diam (mm)	Av. Crown radius (m)	Avg. low crown height (m)	Life Stage	Special importance	General Observations	Health & vitality	Structural condition	Estimated Remaining Contribution (Years)	BS5837 Category	RPA Radius (m)	ASNW or ARW buffer (m)	TPO
W7	Oak; ash; alder; crack willow; goat willow; beech; silver birch; holly; hazel; elder; hawthorn.	On	3-18	125	Yes	900	7.0	1.5	M	ASNW	Woodland plot with developed understory; straddling valley running NE - SW. Predomi-tly oak with alder; birch and ash - other trees occur less frequently. Understory of holly and hazel. Area to north designated ANSW. Several ash showing small to moderate sized deadwood in crown.	Good	Good	40	A3	10.8	20.0	None
W8	Oak; ash; hawthorn; holly; hazel; field maple; broom; dog rose; blackthorn;elder.	On	5-19	50	Yes	650	6.0	0.5	M	None	Sample recorded where feature abutts survey area - cursory inspection from boundary. Some clearance work beneath overhead power lines. Partially fenced around treatment works. Good vigour in places; scrappy in others.	Fair	Fair	40	B2	7.8	-	None
W9	Willow; alder; hazel; ash; elder.	Off	12-23	50	Yes	400	6.0	2.0	M	None	Scrappy woodland edge; with some large; mature alder and willow. Straddling feeder stream to W (running NW-SE); then on site side of main river towards E. Banks of river and shrub layer relatively clear due to regular flooding.	Fair	Fair	20	B2	4.8	-	None
W10	Willow; alder; hazel; ash; elder	Off	10 - 21	30	Yes	700	8.0	0.0	M	ASNW	Off-site woodland plot; sample recorded where plot abuts survey area; cursory inspection from boundary; good vigour throughout crowns	Good	Good	40	A3	8.4	20.0	None
W11	Willow; alder; hazel; ash; elder.; hawthorn.	Off	7-21	50	Yes	400	6.0	2.0	M	None	Scrappy woodland edge; with some large; mature alder and willow; on site side of river. Banks of river and shrub layer relatively clear due to regular flooding; with a lot of flood debris at ground level and some large trees failed due to flood. Evidence of flooding and flood debris in field	Fair	Fair	20	B2	4.8	-	None

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

HEDGEROWS

Ref	Species	On/off site	Av. height (m)	Av. width (m)	Av. stem diam (mm)	Av. low crown height (m)	Life stage	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)
H1*	Common ash; common alder; willow; hazel	On	5	3	150	0.0	EM	Managed coppice stools with dense sub 75mm stem regrowth. Dense bramble in parts.	Good	Fair	10+	C2	1.8
H2*	Blackthorn; hawthorn	On	1.5	1	75	0.0	EM	Managed hedgerow with some gaps. Dense bracken and bramble site side.	Fair	Fair	10+	C2	1
H3*	Hazel; elder	Off	5	4	150	0.0	M	Unmanaged multi stemmed group. Dense bramble site side. Growing on lower ground than site.	Good	Fair	20+	C2	1.8
H4*	Holly; elder; alder; hazel	On	5	3	100	0.0	SM	Scrub group.	Fair	Fair	20+	C2	1.3
H5	Hazel; willow; hawthorn; blackthorn	On	4	3	100	0.0	M	Hedgerow scrub group with unmanaged tops and managed sides.	Good	Good	20+	B2	1.3
H6	Blackthorn; elder; hazel	On	8	4	150	1.0	EM	Outgrown hedgerow group; predomi-tly hazel coppice. Unmanaged tops and managed sides.	Good	Fair	20+	B2	1.8
H7	Blackthorn; elder; hazel	On	8	4	150	1.0	EM	Outgrown hedgerow group with some ivy clad stems. Unmanaged tops and managed sides.	Good	Fair	20+	B2	1.8
H8*	Hazel; sycamore; plum; privet; field maple; dog rose; holly; hawthorn; blackthorn; ash; snowberry; yew; Leyland cypress.	Off	2.5	2	150	0.0	EM	Thick; managed; garden hedgerow.	Good	Good	40+	B2	1.8
H9*	Hazel; sycamore; field maple; dog rose; holly; hawthorn; blackthorn; ash.	Off	1.5	1	150	0.0	EM	Managed hedgerow.	Good	Good	40+	B2	1.8
H10*	Hazel; sycamore; field maple; dog rose; holly; hawthorn; blackthorn; ash.	Off	1.8	2	150	0.0	EM	Managed hedgerow.	Good	Good	40+	B2	1.8
H11	Hazel; sycamore; dog rose; holly; hawthorn; blackthorn; ash.	Off	3	2	150	0.0	EM	Managed hedgerow.	Good	Good	40+	B2	1.8
H12*	Hazel; sycamore; hawthorn; blackthorn.	Off	1.8	1.5	100	0.0	EM	Managed hedgerow.	Good	Good	40+	B2	1.3
H13	Hazel; sycamore; dog rose; holly; hawthorn; blackthorn; ash.	Off	3	2	150	0.0	EM	Managed hedgerow.	Good	Good	40+	B2	1.8
H14	Hazel; sycamore; oak; holly; hawthorn; blackthorn.	Off	1.5	1.5	100	0.0	EM	Managed hedgerow.	Good	Good	40+	B2	1.3
H15	Hazel; sycamore; oak; holly; hawthorn; blackthorn.	Off	1.3	1.5	100	0.0	EM	Managed hedgerow.	Good	Good	20+	B2	1.3

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett
Arboricultural Consultants

Ref	Species	On/off site	Av. height (m)	Av. width (m)	Av. stem diam (mm)	Av. low crown height (m)	Life stage	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)
H16	Hazel; sycamore; oak; holly; hawthorn; blackthorn.	Off	1.5	1.5	100	0.0	EM	Managed hedgerow.	Good	Good	40+	B2	1.3
H17	Willow	On	3	2	50	0.0	SM	Dense sub 75mm growing out of managed linear hedgerow.	Good	Fair	10+	C2	0.6
H18	Elder; hawthorn; blackthorn	On	2	1	75	0.0	EM	Managed roadside hedgerow.	Fair	Fair	10+	C2	1
H19	Haze; hawthorn; field maple; blackthorn	On	5	4	150	0.0	EM	Unmanaged scrub group with dense bramble.	Fair	Fair	10+	C2	1.8
H20	Holly; hawthorn; blackthorn; elder	On	1.5	1	90	0.0	EM	Managed hedgerow growing alongside private garden. Managed at fairly low height with some gaps.	Fair	Fair	10+	C2	1.1
H21	Hawthorn; sycamore; hazel; blackthorn; holly	Off	1.8	1.3	100	0.0	EM	Managed roadside hedgerow.	Good	Good	20+	B2	1.3
H22	Hawthorn; sycamore; hazel; blackthorn; holly	Off	1.8	1.3	100	0.0	EM	Managed roadside hedgerow.	Good	Good	20+	B2	1.3
H23	Hawthorn; sycamore; hazel; blackthorn; holly	Off	1.5	1.3	100	0.0	EM	Managed roadside hedgerow.	Good	Good	20+	B2	1.3
H24	Hawthorn; sycamore; hazel; blackthorn; holly; yew; laurel; cypress.	Off	2.5	1	100	0.0	EM	Managed roadside hedgerow.	Good	Good	20+	B2	1.3
H25	Hawthorn; sycamore; hazel; blackthorn; holly	Off	3.5	1.5	100	0.0	EM	Managed roadside hedgerow.	Good	Good	20+	B2	1.3
H26*	Hawthorn; hazel; holly	On	6	2	100	0.0	None	Unmanaged hedgerow group.	Good	Fair	10+	C2	1.3
H27*	Elder; hazel; hawthorn	On	2	1	75	0.0	EM	Managed short section of hedgerow.	Fair	Fair	10+	C2	1
H28	Laurel; holly.	Off	1.3	1.3	100	0.0	EM	Managed roadside hedgerow.	Good	Good	20+	B2	1.3
H29	Privet; mixed shrub species	Off	1.5	1	75	0.0	EM	Managed hedgerow with some gaps.	Fair	Fair	10+	C2	1
H30*	Elder; hazel; hawthorn; blackthorn	On	2	1	75	0.0	EM	Managed section of hedgerow.	Good	Good	20+	B2	1
H31	Hazel; oak; blackthorn; plum; holly.	Off	1.8	1.3	100	0.0	EM	Managed roadside hedgerow.	Good	Good	20+	B2	1.3
H32	Blackthorn; hawthorn	On	1.2	1	75	0.0	EM	Managed roadside hedgerow.	Fair	Fair	10+	C2	1

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Av. height (m)	Av. width (m)	Av. stem diam (mm)	Av. low crown height (m)	Life stage	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)
H33	Hazel; oak; blackthorn; plum; holly.	Off	1.8	1.5	100	0.0	EM	Managed roadside hedgerow set back from road by 2m.	Good	Good	20+	B2	1.3
H34	Hawthorn; blackthorn; elder	On	3	3	75	0.0	EM	Some dense bramble; scrub hedgerow group with limited management.	Fair	Fair	10+	C2	1
H35	Common ash; hawthorn; blackthorn; hazel; alder	On	8	5	200	0.0	M	Mature hazel coppice stools and unmanaged hedgerow species. Larger trees recorded individually. Some gaps and collapsed stems.	Good	Fair	20+	C2	2.4
H36	Blackthorn; hawthorn	On	1.2	1	75	0.0	EM	Managed roadside hedgerow.	Fair	Fair	10+	C2	1
H37	Hawthorn; blackthorn; hazel	On	1.75	1.5	75	0.0	EM	Managed hedgerow.	Good	Good	20+	B2	1
H38	Hazel; hawthorn; damson	On	5	2	200	2.0	EM	Scrub group growing out of hedgerow.	Good	Fair	10+	C2	2.4
H39*	Elder; holly; hawthorn; willow	On	7	4	150	0.0	EM	Outgrown scrub group with unmanaged tops.	Fair	Fair	10+	C2	1.8
H40*	Hawthorn; blackthorn; elder; hazel	Off	3	2	75	0.0	EM	Linear hedgerow managed off site. Stems on site side have been left to grow and layer into site. Dense bramble site side.	Good	Fair	20+	B2	1
H41	Hazel; hawthorn; elder	On	5	4	150	0.0	None	Scrub group on field boundary with unmanaged tops.	Good	Fair	20+	B2	1.8
H42*	Hawthorn	On	5	3	150	0.0	EM	Unmanaged scrub with dense bramble all round.	Good	Fair	10+	C2	1.8
H43*	Hawthorn; holly	On	5	3	150	0.0	EM	Unmanaged scrub with dense bramble all round.	Fair	Fair	10+	C2	1.8
H44*	Hawthorn; holly	On	4	2	75	0.0	SM	Unmanaged scrub with dense bramble all round.	Fair	Fair	10+	C2	1
H45	Hazel; common alder	Off	5	3	150	0.0	SM	Scrub group growing in ditch.	Good	Fair	10+	C2	1.8
H46	Hawthorn; holly	Off	5	3	150	0.0	EM	Scrub group growing on ground sloping away from site.	Good	Fair	10+	C2	1.8
H47	Hawthorn; blackthorn; holly	Off	1	0.5	75	0.0	EM	Managed hedgerow with some gaps.	Good	Fair	10+	C2	1
H48	Hawthorn; holly; elder; blackthorn	On	1.75	1	75	0.0	EM	Managed linear hedgerow. Unmanaged tops south where hedgerow joins tree group. Minor gaps with some bracken.	Good	Fair	20+	B2	1
H49	Hawthorn; holly; elder; blackthorn	On	1.75	1	75	0.0	EM	Managed linear hedgerow. Unmanaged tops south where hedgerow joins tree group.	Good	Fair	20+	B2	1
H50*	Holly	On	6	3	200	0.0	None	Outgrown hedgerow under oak crown.	Good	Fair	10+	C2	2.4

** tree location approximate*

TREE SURVEY SCHEDULE

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PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Av. height (m)	Av. width (m)	Av. stem diam (mm)	Av. low crown height (m)	Life stage	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)
H51	Hawthorn; blackthorn; holly	Off	1.5	1	75	0.0	EM	Managed hedgerow with some gaps.	Good	Fair	10+	C2	1
H52*	Holly; elm; hawthorn	Off	1	1	75	0.0	EM	Short section of managed hedgerow.	Fair	Fair	10+	C2	1
H53*	Field maple	On	5	2	100	0.0	SM	Short section of hedge being left to establish as trees with dense bramble at bases.	Good	Fair	10+	C2	1.3
H54	Hawthorn; willow; blackthorn; hazel; sycamore	On	1.5	1	90	0.0	EM	Managed linear hedgerow. Road to west. Varying width.	Good	Good	20+	B2	1.1
H55	Hawthorn; willow; blackthorn; hazel; sycamore	On	1.5	1	90	0.0	EM	Managed linear hedgerow. Some stems intermittently left to grow in height but generally managed uniformly.	Good	Good	20+	B2	1.1
H56*	Hazel	On	5	2	100	0.0	EM	Dead and poor condition stems.	Poor	Poor	<10	U	1.3
H57	Hawthorn; blackthorn	On	1.5	1	75	0.0	EM	Managed linear hedgerow.	Fair	Fair	10+	C2	1
H58	Hawthorn; blackthorn; holly	On	1.5	1	75	0.0	EM	Managed linear hedgerow.	Fair	Fair	10+	C2	1
H59	Hawthorn; blackthorn	On	1.5	1	75	0.0	EM	Managed linear hedgerow.	Fair	Fair	10+	C2	1
H60	Hawthorn; blackthorn; holly	On	2	1	100	0.0	EM	Managed linear hedgerow. Tops on north side have not been flailed.	Good	Good	20+	B2	1.3
H61*	Holly; hazel; hawthorn	On	10	4	150	0.0	EM	Unmanaged tops; predomi-tly holly. Close grown stems with limited aesthetic value.	Good	Fair	20+	C2	1.8
H62*	Holly; hazel; hawthorn	On	10	4	150	0.0	EM	Unmanaged tops; predomi-tly holly. Close grown stems with limited aesthetic value.	Good	Fair	20+	C2	1.8
H63*	Hazel; holly; elder	On	6	3	150	0.0	M	Relatively narrow section of unmanaged hedgerow species with some gaps.	Fair	Fair	10+	C2	1.8
H64	Hazel; holly; hawthorn; blackthorn; Pedunculate oak	On	6	4	200	0.0	M	Predomi-tly unmanaged outgrown hazel coppice stools. Oaks trees establishing in group but currently around same size as hazel.	Good	Fair	20+	C2	2.4
H65	Hazel; holly; hawthorn; blackthorn	On	5	3	150	0.0	M	Unmanaged outgrown hedgerow with hazel coppice stools. Some gaps and dense bramble in parts.	Good	Fair	20+	C2	1.8
H66	Holly; elder; hazel; hawthorn	On	6	4	200	0.0	M	Growing in depression in ground. Scrub group. They managed with dense bramble.	Good	Good	20+	B2	2.4
H67	Holly; elder; hawthorn	On	1.5	1	75	0.0	EM	Managed hedgerow with gaps.	Fair	Fair	10+	C2	1
H68	Holly; elder; hawthorn	On	0.5	1	75	0.0	EM	Managed at low height.	Fair	Fair	10+	C2	1

** tree location approximate*

TREE SURVEY SCHEDULE

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CLIENT: TOTAL ENERGIES

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Ref	Species	On/off site	Av. height (m)	Av. width (m)	Av. stem diam (mm)	Av. low crown height (m)	Life stage	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)
H69	Holly; elder; hawthorn	On	0.5	1	75	0.0	EM	Managed at low height.	Fair	Fair	10+	C2	1
H70	Beech; hawthorn; elder; hazel; blackthorn.	On	2	1.5	100	0.0	M	Managed roadside hedgerow.	Good	Good	20+	B2	1.3
H71*	Holly; hawthorn	On	7	4	100	0.0	EM	Unmanaged hedgerow group with some dead and poor quality stems.	Fair	Fair	10+	C2	1.3
H72	Hawthorn; blackthorn; elder; hazel; holly	On	1.75	1	75	0.0	EM	Managed roadside hedgerow.	Good	Good	20+	B2	1
H73	Beech; hawthorn; elder; hazel; blackthorn.	On	3	1.5	100	0.0	M	Managed roadside hedgerow.	Good	Good	20+	B2	1.3
H74	Hawthorn; elder; hazel; blackthorn.	On	2.5	1	75	0.0	M	Part-managed roadside hedgerow; flailed up to 3.5m; needs crown lifting up to highway standard.	Good	Good	20+	B2	1
H75*	Hazel	Off	6	2	100	0.0	EM	Unmanaged tops; managed sides.	Good	Fair	10+	C2	1.3
H76	Beech; hawthorn; elder; hazel; blackthorn.	On	2	1.5	100	0.0	M	Managed roadside hedgerow.	Good	Good	20+	B2	1.3
H77*	Hazel; hawthorn; blackthorn; field maple; holly	Off	5	3	100	0.0	EM	Multi stemmed hedgerow species. Unmanaged tops and managed sides.	Good	Fair	20+	B2	1.3
H78*	Hazel; hawthorn; blackthorn; field maple; holly	Off	5	3	100	0.0	EM	Multi stemmed hedgerow species. Unmanaged tops and managed sides.	Good	Fair	20+	B2	1.3
H79*	Hazel; hawthorn; blackthorn; field maple; holly	Off	5	3	100	0.0	EM	Multi stemmed hedgerow species. Unmanaged tops and managed sides.	Good	Fair	20+	B2	1.3
H80*	Hazel; hawthorn; blackthorn; field maple; elder	Off	5	3	100	0.0	EM	Multi stemmed hedgerow species. Unmanaged tops and managed sides. Minor gaps.	Good	Fair	20+	B2	1.3
H81*	Hazel; hawthorn; blackthorn	Off	5	2	100	0.0	EM	Short section of unmanaged hedgerow species.	Good	Fair	10+	C2	1.3
H82*	Hazel; holly; hawthorn	On	7	3	150	0.0	EM	Unmanaged tops; managed sides. Short section of scrub hedgerow.	Good	Fair	10+	C2	1.8
H83*	Hazel; holly	On	6	3	100	0.0	EM	Hazel coppice stools with some gaps and some holly.	Good	Fair	10+	C2	1.3
H84	Hazel; hawthorn	On	1.75	1	75	0.0	EM	Managed section of hedgerow with minor gaps.	Good	Fair	10+	C2	1
H85*	Field maple; hazel; holly	On	6	3	150	0.0	EM	Unmanaged hazel coppice and scrub.	Good	Fair	20+	C2	1.8
H86*	Poplar; hazel; willow.	Off	8	7	150	0.0	EM	Unmanaged coppice.	Good	Fair	20+	C2	1.8

** tree location approximate*

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Ref	Species	On/off site	Av. height (m)	Av. width (m)	Av. stem diam (mm)	Av. low crown height (m)	Life stage	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)
H87	Beech; hawthorn; elder; hazel; blackthorn.	On	3	1.5	100	0.0	M	Managed roadside hedgerow.	Good	Good	20+	B2	1.3
H88*	Field maple; hawthorn	On	1	1	75	0.0	EM	Poor quality section of hedgerow managed at varying heights from 0.5m to 1.5m. Varying widths. Dense bramble and vegetation in parts.	Poor	Poor	<10	U	1
H89	Hawthorn; elder; hazel; blackthorn.	On	2.5	1	75	0.0	M	Managed roadside hedgerow.	Good	Good	20+	B2	1
H90*	Field maple; hawthorn; dogwood.	On	1.5	1.5	100	0.0	EM	Low quality section of hedgerow. Varying width and stem diameters. Dense bramble and bracken in parts. Growing from roadside which is lower than site - tops are in line with ground level on site in parts.	Fair	Fair	10+	C2	1.3
H91*	Hazel; holly; elder; hawthorn	On	1.5	1	75	0.0	EM	Short section of managed hedgerow.	Good	Fair	10+	C2	1
H92	Hawthorn; elder; hazel; blackthorn.	On	2.5	1	75	0.0	M	Managed roadside hedgerow.	Good	Good	20+	B2	1
H93*	Haze	Off	5	2	75	0.0	EM	Unmanaged hazel set back from road.	Good	Fair	10+	C2	1
H94	Hawthorn; elder; hazel; blackthorn	On	2	1	75	0.0	M	Managed roadside hedgerow.	Good	Good	20+	B2	1
H95	Field maple; Laurel; hawthorn	On	5	3	100	0.0	EM	Unmanaged hedgerow group.	Good	Fair	10+	C2	1.3
H96*	Holly; elder; hawthorn	Off	1.5	2.5	75	0.0	EM	Varying width but generally wide hedgerow predomi-tly holly.	Good	Fair	20+	B2	1
H97	Apple; common beech; elder; hawthorn	Off	3	3	100	0.0	SM	Unmanaged scrub with dense bramble and some establishing trees.	Fair	Fair	10+	C2	1.3
H98	Hazel; elm; hawthorn; blackthorn	Off	1.75	1	75	0.0	M	Managed hedgerow with some unmanaged tops site side on south of hedgerow.	Good	Fair	20+	B2	1
H99*	Hazel	On	5	2	150	0.0	M	Relatively narrow section of unmanaged hazel coppice stools with some gaps.	Fair	Fair	10+	C2	1.8
H100	Hawthorn; hazel; elder	Off	5	2	100	0.0	EM	Section of hedgerow with unmanaged tops and managed sides.	Good	Fair	20+	B2	1.3
H101*	Hazel; field maple; ash; elder	Off	5	2	150	0.0	M	Relatively narrow section of unmanaged hazel coppice stools and other outgrown hedging species. Some gaps.	Fair	Fair	10+	C2	1.8
H102	Hawthorn; blackthorn; holly	On	1.5	1	100	0.0	EM	Managed linear hedgerow.	Good	Good	20+	B2	1.3
H103	Hawthorn; blackthorn; holly	On	1.5	1	100	0.0	EM	Managed linear hedgerow.	Good	Good	20+	B2	1.3

** tree location approximate*

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Ref	Species	On/off site	Av. height (m)	Av. width (m)	Av. stem diam (mm)	Av. low crown height (m)	Life stage	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)
H104	Hawthorn; blackthorn; holly	On	1.5	1	100	0.0	EM	Managed linear hedgerow.	Good	Good	20+	B2	1.3
H105	Holly; hazel; hawthorn; willow	On	7	3	150	0.0	EM	Scrub group with unmanaged tops. Dense bramble site side.	Fair	Fair	10+	C2	1.8
H106	Holly; hazel; hawthorn	On	5	3	150	0.0	EM	Scrub group with unmanaged tops.	Fair	Fair	10+	C2	1.8
H107	Hawthorn	On	1.5	2	90	0.0	SM	Bramble clad hedgerow; Japanese knotweed present.	Fair	Fair	20+	C2	1.1
H108	Hazel; hawthorn; elder	On	6	5	100	0.0	SM	Outgrown hedgerow. Predomi-tly hazel.	Good	Good	40+	B2	1.3
H109	Hawthorn; blackthorn; holly	On	1.5	1	100	0.0	EM	Managed linear hedgerow.	Good	Good	20+	B2	1.3
H110	Hawthorn; blackthorn; holly	On	1.5	1	100	0.0	EM	Managed linear hedgerow.	Good	Good	20+	B2	1.3
H111	Hawthorn; blackthorn; holly	On	1.5	1	75	0.0	EM	Managed linear hedgerow.	Fair	Fair	10+	C2	1
H112*	Hazel; hawthorn	On	4	1	75	0.0	EM	Unmanaged tops. Thin; short section of hedgerow with dense vegetation.	Fair	Fair	10+	C2	1
H113	Hawthorn; blackthorn; holly	On	2	1.5	100	0.0	EM	Managed linear hedgerow.	Good	Good	20+	B2	1.3
H114	Hazel; sycamore; field maple; holly; blackthorn; ash; hawthorn; elm.	On	3	1.5	150	0.5	EM	Managed hedgerow growing on 1m high bank on NW side of road. Heigh of hedge is from road level. Many ferns and diversity of shrub life. Some outgrown stems at western end up to 8m.	Good	Good	40+	B3	1.8
H115	Holly; hazel; blackthorn; beech.	On	9	7	100	0.5	M	Lapsed; part-managed hedgerow; flailed on roadside up to 3.5m.	Good	Good	40+	B2	1.3
H116	Hazel; elder; hawthorn;	On	5.5	5	120	0.0	SM	Large outgrown hedgerow.	Good	Good	40+	B2	1.5
H117	Blackthorn; ash; hawthorn; hazel; Holly; elder	On	6	6	120	0.0	EM	Large hedgerow with flailed sides.	Good	Good	40+	B2	1.5
H118	Blackthorn; ash; hawthorn; hazel; field maple	On	2.5	4	110	0.0	SM	Flailed hedgerow.	Good	Good	40+	B2	1.3
H119	Holly; hawthorn	On	2.5	3	100	0.0	SM	Flailed hedgerow.	Good	Good	40+	B2	1.3
H120	Holly; hazel; hawthorn; blackthorn; sycamore; field maple	On	6	5	200	0.0	EM	Large hedgerow with flailed sides.	Good	Good	40+	B2	2.4

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett
Arboricultural Consultants

Ref	Species	On/off site	Av. height (m)	Av. width (m)	Av. stem diam (mm)	Av. low crown height (m)	Life stage	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)
H121	Blackthorn; hazel; hawthorn	On	2.5	3	100	0.0	SM	Flailed hedgerow.	Good	Good	40+	B2	1.3
H122	Hazel; Holly; blackthorn; hawthorn	On	6	5	120	0.0	EM	Outgrown hedgerow; flailed lower sides.	Good	Good	40+	B2	1.5
H123	Blackthorn; hazel; elder; hawthorn.	On	2.5	3	110	0.0	None	Flailed hedgerow.	Good	Good	20+	B2	1.3
H124	Hawthorn; hazel; ash; dog rose.	On	3	4	150	0.0	SM	Flailed hedgerow.	Good	Good	40+	B2	1.8
H125	Ash; field maple; hazel; hawthorn; blackthorn;	On	3	4	150	0.0	SM	Flailed hedgerow.	Good	Good	40+	B2	1.8
H126	Holly; sycamore; hazel; blackthorn; hawthorn	On	2.5	2	90	0.0	EM	Flailed hedgerow of equal species.	Good	Good	40+	B2	1.1
H127	Holly; hawthorn; sycamore; ash;	On	3	3	110	0.0	None	Flailed hedgerow.	Good	Good	20+	B2	1.3
H128	Hazel; blackthorn; hawthorn; dogwood; oak	On	3.5	4	120	0.0	EM	Flailed hedgerow; predomi-tly hazel; blackthorn and hazel.	Good	Good	40+	B2	1.5
H129	Hawthorn; elder; blackthorn; hops dog rose	On	2.5	2	100	0.0	None	Flailed hedgerow. Predomi-tly hawthorn laced with hops.	Good	Good	40+	B2	1.3
H130	Blackthorn; hazel; elder; hawthorn; field maple; Holly	On	2.5	3	110	0.0	None	Flailed hedgerow.	Good	Good	20+	B2	1.3
H131	Hawthorn; blackthorn; holly; hazel.	On	2	2.5	100	0.0	EM	Managed linear hedgerow.	Good	Good	20+	B2	1.3
H132	Hawthorn; blackthorn; holly; hazel.	On	5	8	100	0.0	EM	Managed linear hedgerow.	Good	Good	20+	B2	1.3
H133	Hawthorn; blackthorn; holly; hazel.	On	2	2.5	100	0.0	EM	Managed linear hedgerow.	Good	Good	20+	B2	1.3
H134	Hawthorn; blackthorn; holly; hazel.	On	2	2.5	100	0.0	EM	Managed linear hedgerow.	Good	Good	20+	B2	1.3
H135	Hawthorn; blackthorn; holly; hazel.	On	4	7	100	0.0	EM	Managed linear hedgerow.	Good	Good	20+	B2	1.3
H136	Hawthorn; blackthorn; holly; hazel; dog rose.	On	2.5	2.5	100	0.0	EM	Managed linear hedgerow.	Good	Good	20+	B2	1.3
H137	Hawthorn; blackthorn; holly; hazel.	On	2.5	4	100	0.0	EM	Managed linear hedgerow.	Good	Good	20+	B2	1.3
H138	Hawthorn; dog rose; ash.	Off	1.2	2.5	100	0.0	EM	Managed; linear; garden hedgerow: mostly behind fence off-site. Hedgerow is mostly bramble at N end.	Good	Good	20+	C2	1.3

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Av. height (m)	Av. width (m)	Av. stem diam (mm)	Av. low crown height (m)	Life stage	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)
H139	Hawthorn; blackthorn; holly; hazel.	On	2	2.5	100	0.0	EM	Managed linear hedgerow.	Good	Good	20+	B2	1.3
H140	Hawthorn; blackthorn; holly	On	2	3	100	0.0	EM	Managed linear hedgerow.	Good	Good	20+	B2	1.3
H141	Hawthorn; blackthorn; holly; hazel.	On	2.5	3.5	100	0.0	EM	Linear hedgerow; managed on site side; lapsed slightly on E side.	Good	Good	20+	B2	1.3
H142	Hawthorn; blackthorn; holly; hazel;	On	2	1.5	100	0.0	EM	Managed linear hedgerow.	Good	Good	20+	B2	1.3
H143	Hawthorn; hazel	On	5	2	150	0.0	EM	Hazel coppice and ivy clad hawthorn. Growing out of hedgerow under power line through- likely reason for unmanaged tops. Likely to be managed by power company in future.	Good	Fair	10+	C2	1.8
H144	Hawthorn; elder; blackthorn	On	2	1	75	0.0	M	Managed roadside hedgerow.	Good	Good	20+	B2	1
H145	Hawthorn; blackthorn; hazel	On	5	4	100	0.0	EM	Unmanaged tops. Managed sides. Wide section of roadside hedging species.	Good	Good	20+	B2	1.3
H146*	Hazel; hawthorn; elder	On	1.75	1	75	0.0	EM	Managed section of hedgerow with minor gaps.	Good	Fair	10+	C2	1
H147	Hawthorn; elder; blackthorn	On	2	1	75	0.0	M	Managed linear hedgerow.	Good	Good	20+	B2	1
H148*	Hazel; hawthorn; elder	On	1	1	75	0.0	EM	Managed section of hedgerow. Managed at low height with dense bramble and bracken.	Poor	Poor	<10	U	1
H149	Hazel; holly; hawthorn	On	6	3	150	0.0	EM	Unmanaged tops. Managed sides. Some gaps. Ivy clad stems.	Fair	Fair	10+	C2	1.8
H150*	Hawthorn; elm	On	8	3	100	2.0	EM	Dead elm and ivy clad drawn up stems.	Fair	Poor	10+	C2	1.3
H151	Beech	On	1	0.75	75	0.0	SM	Managed garden hedgerow.	Good	Good	40+	B2	1
H152	Hawthorn; cherry plum; hazel; ash; dogwood; sycamore; field maple; holly.	On	2.5	2	100	0.0	EM	Managed mixed-species hedgerow.	Good	Good	40+	B2	1.3
H153	Beech.	Off	1.5	1.5	100	0.0	EM	Thick; managed garden hedge.	Good	Good	40+	B2	1.3
H154	Hawthorn; cherry plum; hazel; ash; dogwood	On	4	4	90	0.0	EM	Lapsed hazel and plum hedgerow.	Good	Good	40+	B2	1.1
H155	Hawthorn; cherry plum; hazel; dogwood	On	4	4	90	0.0	EM	Lapsed hazel and plum hedgerow.	Good	Good	40+	B2	1.1

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Av. height (m)	Av. width (m)	Av. stem diam (mm)	Av. low crown height (m)	Life stage	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)
H156	Hawthorn; plum; hazel; ash; blackthorn; field maple; sycamore.	Off	3.5	5	100	0.0	EM	Lapsed roadside hedgerow with individuals (plum; ash) growing up to 10m.	Good	Good	40+	B2	1.3
H157	Hawthorn; plum; hazel; ash; blackthorn; field maple; sycamore.	Off	3	1.5	100	0.0	EM	Lapsed roadside hedgerow.	Good	Good	40+	B2	1.3
H158	Hawthorn; plum; hazel; ash; blackthorn; field maple; sycamore.	Off	1.5	1.3	100	0.0	EM	Managed roadside hedgerow.	Good	Good	40+	B2	1.3
H159*	Hazel; hawthorn; holly	On	5	3	200	0.0	M	Outgrown hedgerow group with gaps.	Fair	Fair	10+	C2	2.4
H160*	Hazel; hawthorn; holly	On	5	3	200	0.0	M	Outgrown hedgerow group with gaps.	Fair	Fair	10+	C2	2.4
H161	Hazel; hawthorn	On	5	3	200	0.0	M	Outgrown hedgerow group.	Good	Fair	20+	B2	2.4
H162	Common ash; hawthorn	On	4	2	75	0.0	SM	Linear planting; unmanaged tops.	Good	Fair	10+	C2	1
H163	Ash; bracken; elder.	On	4	2	50	0.5	SM	Scrubby hedgerow made up of much bracken; on bank < 1m above road. Height measured from road.	Fair	Fair	10+	C2	0.6
H164*	Goat willow; hazel; hawthorn; blackthorn	On	6	4	200	0.0	EM	Scrub group with some establishing trees.	Good	Fair	20+	B2	2.4
H165*	Hawthorn; blackthorn; holly	On	6	4	200	0.0	EM	Scrub group with dense bramble site side.	Fair	Fair	10+	C2	2.4
H166	Hawthorn; hazel; holly; field maple; ash; oak	On	15	8	600	0.0	EM	Outgrown hedge with established trees	Good	Fair	40+	B2	7.2
H167	Hawthorn; plum; oak; holly; hazel; ash; blackthorn; field maple; sycamore.	Off	8	4	100	0.0	EM	Lapsed roadside hedgerow with individuals (plum; ash; oak; sycamore) growing up to 10m. Flailed up to 4m on road side.	Good	Good	40+	B2	1.3
H168	Hawthorn; plum; hazel; ash; blackthorn; field maple; sycamore.	Off	2.5	3.5	100	0.0	EM	Lapsed roadside hedgerow.	Good	Good	40+	B2	1.3
H169	Blackthorn; field maple; dogrose	On	1.25	1	70	0.0	SM	Brushed by flail; losing integrity with smash gaps <2m which are becoming colonised by brambles	Fair	Fair	20+	C2	0.8
H170	Blackthorn; hazel; field maple; dogrose	On	6	4.5	250	0.0	EM	Outgrown hedge; sides brushed by flail for clearance; becoming colonised by brambles	Good	Fair	20+	B2	3
H171	Hawthorn; blackthorn; hazel; holly; field maple; ash; dogrose	On	1.5	1	90	0.0	EM	Managed roadside hedgerow.	Good	Good	20+	B2	1.1

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

Barton Hyett Arboricultural Consultants

Ref	Species	On/off site	Av. height (m)	Av. width (m)	Av. stem diam (mm)	Av. low crown height (m)	Life stage	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)
H172	Hawthorn; blackthorn; hazel; holly; field maple; ash; dogrose	On	1.5	2	90	0.0	SM	Brushed by flail	Good	Fair	40+	B2	1.1
H173	Hawthorn; ash; field maple; elder	On	6.5	4.5	280	0.0	EM	Outgrown hedge with establishing trees; lower field sides brushed by flail for clearance	Good	Fair	40+	B2	3.3
H174	Hawthorn; blackthorn; hazel; holly; field maple; ash; goat willow	On	5	5.5	300	0.0	M	Outgrown hedge	Good	Fair	40+	B2	3.6
H175	Hawthorn; hazel; dogrose	On	1.5	1	70	0.0	SM	Brushed by flail; orphan section of hedge	Good	Fair	40+	B2	0.8
H176	Hawthorn; blackthorn; hazel; field maple; dogrose	On	4.5	5.5	180	0.0	M	Outgrown hedge	Good	Fair	40+	B2	2.2
H177*	Hawthorn; hazel; ash	On	7.5	3.5	170	0.0	EM	Outgrown hedge on field boundary; lower road side brushed by flail for clearance	Good	Fair	20+	B2	2
H178	Hawthorn; hazel; holly; blackthorn; wild privet; dogrose; elder	On	1.5	1.25	70	0.0	SM	Brushed by flail	Good	Fair	40+	B2	0.8
H179	Blackthorn	On	5.5	6	110	0.0	EM	Outgrown rem-t of old hedge-line	Good	Fair	40+	B2	1.3
H180*	Hawthorn; hazel; holly; field maple; oak; dogrose	On	7.5	5	310	0.0	EM	Outgrown hedge on field boundary; lower road side brushed by flail for clearance	Good	Fair	40+	B2	3.7
H181	Blackthorn; elder	On	6	12	150	0.0	EM	Outgrown thicket; predomi-tly thorn	Good	Fair	40+	B2	1.8
H182	Hawthorn; hazel; holly; honeysuckle	On	1.5	1.25	70	0.0	SM	Brushed by flail	Good	Fair	40+	B2	0.8
H183*	Hawthorn; hazel; holly; blackthorn	On	6	6	170	0.0	M	Outgrown hedge on field boundary / old hedge bank	Good	Fair	20+	B2	2
H184*	Hawthorn; hazel; blackthorn	On	6	6	160	0.0	M	Outgrown hedge on field boundary / old hedge bank	Good	Fair	40+	B2	2
H185	Hawthorn; blackthorn; hazel; field maple; dogrose	On	1.5	2	90	0.0	SM	Brushed by flail	Good	Fair	40+	B2	1.1
H186*	Blackthorn; hazel	On	6	4.5	150	0.0	EM	Outgrown hedge; small gaps <1m	Good	Fair	20+	B2	1.8
H187*	Hawthorn; blackthorn; hazel; holly; field maple; elder	On	6	4.5	280	0.0	EM	Outgrown hedge developing into a thicket	Good	Fair	40+	B2	3.3
H188	Field maple; holly; hazel; ash.	Off	2	1.5	100	0.0	EM	Managed roadside hedgerow.	Good	Good	40+	B2	1.3

** tree location approximate*

TREE SURVEY SCHEDULE

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Ref	Species	On/off site	Av. height (m)	Av. width (m)	Av. stem diam (mm)	Av. low crown height (m)	Life stage	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)
H189	Field maple; holly; hazel; ash.	Off	2	1.5	100	0.0	EM	Managed roadside hedgerow.	Good	Good	40+	B2	1.3
H190	Field maple; holly; hazel; ash.	Off	2	1.5	100	0.0	EM	Managed roadside hedgerow.	Good	Good	40+	B2	1.3
H191	Field maple; holly; hazel; ash.	Off	2	1.5	100	0.0	EM	Managed roadside hedgerow.	Good	Good	40+	B2	1.3
H192	Hawthorn; blackthorn; hazel; holly; ash; elder	On	6	4.5	170	0.0	EM	Outgrown hedge developing into a thicket; lower field side brushed by flail for clearance; ground slopes steeply to SE; sample recorded where feature abuts survey area; erosion of topsoil by top water to NE of plot	Good	Fair	40+	B2	2
H193	Hawthorn; blackthorn; hazel	On	6	4.5	170	0.0	EM	Outgrown hedge; sides brushed by flail for clearance; small gaps <1m	Good	Fair	20+	B2	2
H194	Blackthorn; hazel; holly; field maple; oak; goat willow; sycamore; dogrose; elder	On	7	4.5	250	0.0	EM	Outgrown hedge; sides brushed by flail for clearance	Good	Fair	40+	B2	3
H195	Hazel; whitebeam.	On	4	4	100	0.0	SM	Unmanaged hedgerow on fence.	Good	Fair	10+	C2	1.3
H196	Hawthorn; cherry plum; hazel; dogwood	On	4	4	90	0.0	EM	Lapsed hazel and plum hedgerow.	Good	Good	40+	B2	1.1
H197	Hawthorn; cherry plum; hazel; dogwood	On	4	4	90	0.0	EM	Lapsed hawthorn and plum hedgerow.	Good	Good	40+	B2	1.1
H198	Blackthorn; dog rose; holly; elder;	On	1.5	1.5	100	0.3	M	Managed hedge; predomi-tly blackthorn with some stems up to 280 at 0.3m	Good	Good	40+	B2	1.3
H199	Blackthorn; dog rose; holly; elder; hazel	On	1.5	2	150	0.3	M	Managed hedge; predomi-tly blackthorn with some stems up to 280 at 0.3m	Good	Good	40+	B2	1.8
H200	Blackthorn; field maple; hazel; elder; dog rose; hawthorn.	On	1.5	1.5	100	0.3	M	Maintained by flail. Gaps (<2.5m) and/or scrappy beneath mature oaks Scrappy beneath	Good	Good	40+	B2	1.3
H201	Blackthorn; field maple; hazel; elder; dog rose; hawthorn.	On	1.3	1.5	100	0.3	M	Maintained by flail. Straggly N end becoming thicker and contiguous towards gate.	Good	Good	40+	B2	1.3
H202	Blackthorn; field maple; hazel; elder; dog rose	On	1.8	1.5	100	0.3	M	Maintained by flail.	Good	Good	40+	B2	1.3
H203	Blackthorn; field maple; hazel;	On	1.8	2.5	150	0.0	M	Managed; flailed hedge with good thickness and vigour.	Good	Good	40+	B2	1.8
H204	Blackthorn; field maple; hazel;	On	1.5	1.5	100	0.0	M	Straggly; flailed hedge; taller towards NE corner where flailing the top has been missed.	Good	Fair	40+	B2	1.3

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H205	Blackthorn; field maple; hazel	On	1.5	1.5	100	0.3	M	Straggly hedge; maintained by flail. Occasional gap of <1m.	Good	Good	40+	B2	1.3
H206	Blackthorn; field maple.	On	1.5	1.5	80	0.3	M	Straggly hedge; maintained by flail.	Good	Good	40+	B2	1
H207	Hawthorn; blackthorn; hazel; dog rose.	On	9	6	150	0.5	M	Outgrown hedge; with occasional small gap < 2m at ground level. Straddles ditch/ natural stream.	Good	Good	20+	B2	1.8
H208	Hawthorn; holly; blackthorn; hazel.	On	10	6	200	0.5	M	Outgrown hedge; with small gap <2m at S end.	Good	Good	20+	B2	2.4
H209	Hawthorn; blackthorn; hazel; dog rose.	On	9	6	150	0.5	M	Outgrown hedge; with occasional small gap < 2m at ground level.	Good	Good	20+	B2	1.8
H210	Blackthorn; holly; hazel; dog rose.	On	8	2.5	180	0.3	EM	Unmanaged; outgrown hedge segment. Holly up to 10m.	Good	Good	20+	B2	2.2
H211	Blackthorn; field maple; hazel; elder; dog rose; hawthorn.	On	1.5	1.5	100	0.3	M	Maintained by flail.	Good	Good	40+	B2	1.3
H212	Hawthorn; dog rose.	On	1.7	1	100	0.5	M	Managed; roadside hedge.	Good	Good	40+	B2	1.3
H213	Blackthorn; holly; elm; hawthorn.	On	2	1.5	100	0.0	EM	Scrappy hedgerow following fence; with many brambles.	Fair	Fair	20+	B2	1.3
H214	Blackthorn; hawthorn; cherry; elder	On	4	3	250	0.5	M	Outgrown hedge with occasional sections flailed to 1.5m ht (these often full of bramble) and some individual shrubs growing to 9m. Growing on bank that drops away 3m down to field to W.	Good	Fair	20+	B2	3
H215	Sycamore; privet; snowberry.	Off	1.5	1.5	100	0.3	EM	Roadside; managed; garden hedge.	Good	Good	20+	B2	1.3
H216	Sycamore; privet; ash; lilac; elder; snowberry; hazel; hawthorn	Off	2	2	100	0.3	EM	Roadside; managed; garden hedge.	Good	Good	20+	B2	1.3
H217	Hawthorn; hazel.	Off	2	2	100	0.3	EM	Roadside; managed hedge.	Good	Good	20+	B2	1.3
H218	Hawthorn; hazel; blackthorn.	Off	7	5	100	0.3	EM	Roadside; lapsed hedgerow. Managed on roadside up to 3.5m. Ditch between hedgerow and road.	Good	Good	20+	B2	1.3
H219	Hazel; hawthorn; dogwood; elder; blackthorn;	On	6	5	150	0.5	EM	Lapsed hedgerow feature. Some stems up to 9m.	Good	Good	20+	B2	1.8
H220	Hawthorn; blackthorn; ash; hazel.	Off	1.8	1.5	100	0.3	M	Thick; part-managed hawthorn hedge.	Good	Good	40+	B2	1.3
H221	Blackthorn	On	2	1.5	100	0.0	EM	Scrappy hedgerow following fence; mostly made up of brambles.	Fair	Fair	20+	B2	1.3

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H222	Hawthorn; ash.	Off	1.8	1.5	100	0.3	M	Thick hawthorn garden hedge.	Good	Good	40+	B2	1.3
H223	Hawthorn; hazel; yew; snowberry.	Off	2	1	100	0.0	M	Thick hawthorn garden hedge.	Good	Good	40+	B2	1.3
H224	Hawthorn; hazel	On	6.5	4	140	0.0	EM	Outgrown hedge; scrappy beneath mature trees; ditch to S	Good	Fair	20+	B2	1.7
H225	Blackthorn	On	2.5	1.5	70	0.0	SM	Brushed by flail; cutting has lapsed in last couple of years	Good	Fair	20+	B2	0.8
H226	Hawthorn; hazel; ash; goat willow	On	6.5	4	140	0.0	EM	Outgrown hedge; ditch to S	Good	Fair	20+	B2	1.7
H227	Blackthorn; ash; dogrose	On	3	1.5	70	0.0	SM	Doesn't appear to have been cut since establishment; colonised by brambles; ditch to S	Good	Fair	20+	C2	0.8
H228	Hawthorn; blackthorn; hazel; holly; yew; oak	On	7	5	180	0.0	EM	Outgrown hedge with establishing trees	Good	Fair	20+	B2	2.2
H229	Hawthorn	On	1.5	1.5	80	0.0	SM	Brushed by flail; scrappy section beneath mature oak	Good	Fair	20+	C2	1
H230	Hawthorn; hazel; holly; dogrose; elder	On	1.75	1.5	80	0.0	SM	Brushed by flail	Good	Fair	40+	B2	1
H231	Hawthorn; blackthorn; elder	On	1.75	1.5	80	0.0	SM	Brushed by flail	Good	Fair	40+	B2	1
H232	Cypress	Off	10	7.5	500	0.0	EM	Outgrown hedge on boundary; has been historically topped	Fair	Fair	20+	C2	6
H233	Holly	On	4.5	3	130	0.0	EM	Outgrown hedge on boundary; sides brushed for clearance	Good	Fair	20+	B2	1.6
H234	Hawthorn; blackthorn; holly	On	1.5	2	80	0.0	SM	Brushed by flail	Good	Fair	40+	B2	1
H235	Blackthorn; field maple; hazel; holly.	On	1.2	2.5	100	0.0	M	Thick; flailed hedge with much bramble.	Good	Fair	40+	B2	1.3
H236	Blackthorn; hazel; willow; ash; hawthorn; elder.	On	3.5	5	100	0.5	EM	Lapsed management hedge straddling drainage ditch/ feeder stream. Occasional willow growing to 10m. A couple of gaps <10m.	Good	Good	20+	B2	1.3
H237	Blackthorn; hazel; ash; willow; dog rose.	On	4	5	100	0.5	EM	Lapsed management hedge straddling drainage ditch. Evidence of flood debris abutting hedge-line on W side.	Good	Good	20+	B2	1.3
H238	Hawthorn; damson; blackthorn	On	5	3	200	0.0	EM	Unmanaged scrub group with dense bramble in some parts.	Good	Good	20+	C2	2.4
H239	Elm	On	2	1	75	0.0	SM	Managed elm hedge with dense bracken; some dead unmanaged stems and bramble.	Fair	Fair	10+	C2	1

** tree location approximate*

TREE SURVEY SCHEDULE

SITE NAME: CANDWR SOLAR FARM

PROJECT NO: 6548

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

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Ref	Species	On/off site	Av. height (m)	Av. width (m)	Av. stem diam (mm)	Av. low crown height (m)	Life stage	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)
H240*	Blackthorn; hawthorn; hazel; holly; sycamore; dogrose; elder	On	2	1.5	90	0.3	M	Maintained hedge; brushed by flail; predomi-tly hawthorn which shows form of being historically laid; made good with fencing; overhead power line poles within hedgerow to approximate middle with stems below this gaining height to c. 4.5m	Good	Fair	40+	B2	1.1
H241*	Blackthorn; sycamore	On	1.5	1	80	0.0	SM	Maintained patchy hedge; brushed by flail; made good with fencing; heavily colonised by brambles	Fair	Fair	20+	C2	1
H242*	Blackthorn; hawthorn; hazel; holly; ash	On	2	2	90	0.0	M	Maintained hedge; brushed by flail; predomi-tly thorn which shows form of being historically laid; ditch to NW; several hazel stems to S of plot allowed to attain height of c. 5m	Good	Fair	40+	B2	1.1
H243*	Hawthorn; ash	On	2	1.5	90	0.0	SM	Maintained hedge; brushed by flail; becoming patchy & colonised by brambles	Fair	Fair	20+	C2	1.1
H244*	Sycamore; ash; field maple	On	2	1.5	110	0.0	SM	Maintained hedge; brushed by flail; becoming patchy & colonised by brambles	Fair	Fair	20+	C2	1.3
H245*	Hawthorn; hazel; sycamore	On	8	7	150	0.0	SM	Outgrown hedge; sides brushed by flail to maintain clearance & top growth left unchecked	Good	Fair	20+	B2	1.8
H246*	Hazel; holly	On	7	6	150	0.0	SM	Outgrown hedge; sides brushed by flail to maintain clearance & top growth left unchecked	Good	Fair	20+	B2	1.8
H247*	Hawthorn; hazel	On	5	4	100	0.0	SM	Outgrown hedge; side to S brushed by flail to maintain clearance & top growth left unchecked; plot is heavily choked by brambles	Fair	Poor	<10	C2	1.3
H248*	Blackthorn; hawthorn; hazel; holly	On	8	7	120	0.0	SM	Outgrown hedge; sides partially brushed by flail to maintain clearance & top growth left unchecked	Good	Fair	20+	B2	1.5
H249*	Blackthorn; hawthorn	On	2	1.5	90	0.0	SM	Maintained hedge; brushed by flail	Good	Fair	40+	B2	1.1
H250*	Hawthorn; hazel; holly; sycamore; ash; yew	On	2	2	90	0.0	M	Maintained hedge; brushed by flail; predomi-tly thorn which shows form of being historically laid	Good	Fair	40+	B2	1.1
H251*	Field maple; blackthorn; ash; hazel; hawthorn	On	8	7	180	0.0	SM	Outgrown hedge; sides partially brushed by flail to maintain clearance & top growth left unchecked	Good	Fair	20+	B2	2.2
H252*	Hawthorn; holly; elm; cherry	On	6.5	6	100	0.0	SM	Outgrown hedge; sides brushed by flail to maintain clearance & top growth left unchecked	Fair	Fair	20+	B2	1.3
H253*	Goat willow; hazel; holly; elder	On	7	5.5	110	0.0	SM	Outgrown hedge; sides brushed by flail to maintain clearance & top growth periodically brushed; predomi-tly willow; open drain runs through plot	Good	Fair	20+	B2	1.3
H254*	Goat willow; hawthorn	On	6	5	110	0.0	SM	Outgrown hedge; sides brushed by flail to maintain clearance & top growth periodically brushed; predomi-tly willow; open drain runs through plot	Good	Fair	20+	B2	1.3
H255*	Hazel; hawthorn; alder; elder	On	6	5	140	0.0	SM	Outgrown hedge; sides brushed by flail to maintain clearance & top growth left unchecked; predomi-tly hazel; open drain runs through plot	Good	Fair	20+	B2	1.7

** tree location approximate*

TREE SURVEY SCHEDULE

PROJECT NO: 6548

SITE NAME: CANDWR SOLAR FARM

SURVEYOR: DH, JR, EA

CLIENT: TOTAL ENERGIES

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Ref	Species	On/off site	Av. height (m)	Av. width (m)	Av. stem diam (mm)	Av. low crown height (m)	Life stage	General observations	Health & vitality	Structural condition	Estimated remaining contribution (Years)	BS 5837 Category	RPA radius (m)
H256*	Hazel; hawthorn; alder	On	4.5	3.5	120	0.0	SM	Outgrown hedge; sides brushed by flail to maintain clearance & top growth only managed at section beneath overhead power lines; predomi-tly hazel; open drain to SE of plot	Good	Fair	20+	B2	1.5

** tree location approximate*

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- The tree survey was carried out with reference to the methodology set out in BS 5837:2012 'Trees in relation to design, demolition and construction – Recommendations'.
- Trees were surveyed individually or as groups where it was considered that they had grown together to form cohesive arboricultural features either aerodynamically (trees that provide companion shelter), visually (e.g. avenues or screens) or culturally (including for biodiversity). However, where it was considered that there was an arboricultural need to differentiate between attributes trees within groups and/or woodlands were also surveyed as individuals.
- Within the tree survey schedule, each surveyed TREE (T), GROUP (G), HEDGEROW (H), WOODLAND (W) or SHRUB MASS on or adjacent to the site is given a reference number which refers to its position on the tree survey and constraints plan.
- TREE SPECIES are listed by common name.
- OOS: The recorded Out Of Scope trees and features refer to either a dead-standing or failed tree; a stump or minor shrubs; where trees are inaccessible or located off-site and unlikely to be affected by the development or, it is found that the trees are undersized according to BS 5837:2012, which stipulates a minimum recordable diameter of 75mm.

The **DIMENSIONS** taken are:

- STEM-No. indicates the number of main stems (i.e. whether the trunk divides at or below 1.5m; (used in the calculation of root protection area (RPA)) "m-s" = Multi-stemmed.
- STEM DIAMETER (measured in millimetres), obtained from the girth measured at approx. 1.5m. For trees with 2 to 5 sub-stems, a notional figure is derived from the sum of their cross-sectional areas. For multi-stemmed trees, the notional diameter may be estimated on the basis of the average stem size x the number of stems. Note: a notional diameter may be estimated where measurement is not possible.
- HEIGHT (measured in metres), recorded to the nearest half metre for dimensions up to 10m and to the nearest whole metre for dimensions over 10m.
- The CROWN SPREAD, taken at the four cardinal points to derive an accurate representation of the tree crown, recorded up to the nearest half metre for dimensions up to 10m and to up the nearest whole metre for dimensions over 10m.
- CROWN CLEARANCES, expressed both as the existing height above ground level of the first significant branch along with its direction of growth (e.g., 2.5m-N) and also in terms of the overall crown e.g., the average height of the crown above ground level. Measurements are recorded to the nearest half metre for dimensions up to 10m and to the nearest whole metre for dimensions over 10m.
- ESTIMATES: where any measurement has had to be estimated, e.g., due to inaccessibility, this is indicated by a "#" suffix to the measurement as shown in the Tree Survey Schedule.

LIFE STAGE is defined as follows:

Y Young: Normally stake dependent, establishing trees. Should be growing fast, usually primarily increasing in height more than spread but as yet making a limited impact upon the landscape.

SM Semi-mature: Established young trees, normally of good vigour and still increasing in height but beginning to spread laterally. Beginning to make an impact on the local landscape and environment. Semi-mature are still capable of being transplanted without preparation, up to 300mm girth and not yet sexually mature.

EM Early-mature: Not yet having reached 75% of expected mature size. Established young trees, normally of good vigour and still increasing in height but beginning to spread laterally. Beginning to make an impact on the local landscape and environment.

M Mature: Well-established trees, still growing with some vigour but tending to fill out and increase spread. Bark may be beginning to crack and fissure. In the middle half of their safe, useful life expectancies.

LM Late-mature: In full maturity but possibly beyond mature and in a state of natural decline. Still retaining some vigour but any growth is slowing.

A Ancient: A tree that has passed beyond maturity and is old/aged compared with other trees of the same species. Typically having a very wide trunk and a small canopy.

PHYSIOLOGICAL CONDITION (HEALTH & VITALITY):

Essentially a snapshot of the general health of the tree based upon its general appearance, its apparent vigour and the presence or absence of symptoms associated with poor health, physiological stress etc. (fungal infections may be recorded here but decay giving rise to structural weakness would be recorded under 'Structural Condition' – see next parameter):

Good: No significant health issues.
Fair: Indications of slight stress or minor disease (e.g., the presence of minor dieback/deadwood or epicormic shoot growth).
Poor: Significant stress or disease noted; larger areas of dieback than above.
Dead: (or Moribund).

STRUCTURAL CONDITION:

Features affecting the structural stability of the tree include decay, significant deadwood, root-plate instability or significant damage to structural roots, weak forks (e.g. those where bark is included between the members) etc. Classified as:

Good: No obvious structural defects: basically sound.
Fair: Minor, potential or incipient defects.
Poor: Significant feature(s) likely to lead to actual failure in the medium- to long-term.
Dead: (or Moribund).

ESTIMATED REMAINING CONTRIBUTION:

An estimate of the length of time in years that a tree might be expected to continue to make a useful contribution to the locality at an acceptable level of risk (based on an assumption of continued routine mainte-ce):

- Less than 10 years
- 10+ years
- 20+ years
- 40+ years

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SPECIAL IMPORTANCE:

Trees that are particularly notable as high-value trees such as ancient trees/woodland or veteran trees. Such trees may be regarded as the principal arboricultural features of a site and pose a significant constraint to potential development.

An ***ancient*** tree is one that has passed beyond maturity and is very old compared with other trees of the same species. Very few trees reach the ancient life stage. ***Veteran*** trees are often very old but not necessarily so; they may be regarded as 'survivors' that have developed some of the characteristic features of an ancient tree but have not necessarily lived as long. All ancient trees are veterans but not all veteran trees are ancient.

The term '*notable*' carries no weight within the National Planning Policy Framework (NPPF), but is a term that recognises a mature tree which may stand out in the local environment because it is large in comparison with other trees around it.

Ancient woodland is an area that has been wooded continuously since at least 1600 AD. It includes ancient semi-natural woodland (ASNW), plantations on ancient woodland sites (PAWS) and ancient replanted woodland (ARW).

QUALITY CATEGORY:

Trees are classed as category U, A, B or C, based on criteria given in BS 5837:2012; summary definitions as follows (see BS 5837 for further details). Categories A, B and C are further characterised by the use of sub-categories, which attempt to identify what aspect of the tree is the main source of its perceived value, These are:

(1) arboricultural qualities
(2) landscape qualities, and
(3) cultural, historic or ecological/conservation qualities.

Examples of these qualities for each of the three categories are given below, although these are indicative only.

Note: This is NOT a health and safety classification; the classification does not take into account any requirement for remedial tree care or ongoing mainte-ce apart from that which may affect the trees' general suitability for retention.

CATEGORY A: HIGH QUALITY:

Trees or groups whose retention should be given a particularly high priority within the design process. Normally with an expected useful life expectancy of at least 40 years.

A1: Notably fine specimens; rare or unusual specimens; essential component trees within groups, semi-formal or formal plantings (e.g., domi-t trees within an avenue etc.).
A2: Trees, groups or woodlands of particular visual importance as landscape features.
A3: Trees, groups or woodlands of particular significance by virtue of their conservation, historical, commemorative or other value (e.g., veteran trees or wood pasture).

CATEGORY B: MODERATE QUALITY

Trees or groups of some importance with a likely useful life expectancy in excess of 20 years. Their retention would be desirable; selective removal of certain individuals may be acceptable but only after full consideration of all alternative courses of action.

B1: Fair quality but not exceptional; good specimens showing some impairment (e.g., remediable defects, minor storm damage or poor past management).
B2: Acceptable trees situated such as to have little visual impact within the wider locality. Also the number of trees, perhaps in groups or woodlands, whose value as landscape features is greater collectively than would warrant as individuals (such that the selective removal of an individual would not impact greatly upon the trees' overall, collective value).
B3: Trees, groups or woodlands with clearly identifiable conservation or other cultural benefits.

CATEGORY C: LOW QUALITY:

Trees or groups of rather low quality, although potentially capable of retention for at least approx. 10 years. Also small trees with stems below 150mm diameter.

Potentially retainable, but not of sufficient value to be regarded as a significant planning constraint.

C1: Unremarkable trees of very limited merit or significantly impaired condition.
C2: Trees offering only low- or short-term landscape benefits; also secondary specimens within groups or woodlands whose loss would not significantly diminish their landscape value.
C3: Trees with extremely limited conservation or other cultural benefits.

CATEGORY U: VERY LOW QUALITY

Trees likely to prove to be unsuitable for retention for longer than 10 years should any significant increase in site usage arise as a result of development. E.g., dead or moribund trees; those at risk of collapse or in terminal decline; trees that will be left unstable by other essential works such as the removal of nearby category U trees; trees infected by pathogens that could materially affect other trees; low-quality trees that are suppressing better specimens. (Category U trees may have conservation values that it might be desirable to preserve. This category may also include trees that should be removed irrespective of any development proposals.)

ROOT PROTECTION AREA (RPA):

These are normally represented as a circle centred on the base of each tree stem with a radius of 12 times the stem diameter, measured at 1.5m above ground level. The shape of the RPA may be altered where site conditions dictate that there are sound reasons to do so.

VETERAN OR ANCIENT TREE BUFFER (VTB/ATB)

In line with the Standing Advice produced by the Forestry Commission and Natural England, this is a buffer zone (in metres) around an ancient or veteran tree that should be at least 15 times larger than the diameter of the tree. The buffer zone should be 5m from the edge of the tree's canopy if that area is larger than 15 times the tree's stem diameter.

ANCIENT WOODLAND BUFFER (FOR ASNW, PAWS OR ARW)

In line with the Standing Advice produced by the Forestry Commission and Natural England, this is a buffer zone of at least 15 metres to avoid root damage. Where assessment shows other impacts are likely to extend beyond this distance, a larger buffer zone may be required.

THE IMPORTANCE OF TREES

Wider benefits:

There is a growing body of evidence that trees bring a wide range of benefits to the places people live.

Some *Economic* benefits of trees include:

- Trees can increase property values
- As trees grow larger, the lift they give to property values grows proportionately
- They can improve the environmental performance of buildings by reducing heating and cooling costs, thereby cutting bills
- Mature landscapes with trees can be worth more as development sites
- Trees create a positive perception of a place for potential property buyers
- Urban trees improve the health of local populations, reducing healthcare costs

Some *Social* benefits of trees include:

- Trees help create a sense of place and local identity
- They benefit communities by increasing pride in the local area
- They can create focal points and landmarks
- They have a positive impact on people's physical and mental health
- They can have a positive impact on crime reduction

Some *Environmental* benefits of trees include:

- Urban trees reduce the 'urban heat island effect' of localised temperature extremes
- They provide shade, making streets and buildings cooler in summer
- They help remove dust and particulates from the air
- They help to reduce traffic noise by absorbing and deflecting sound
- They help to reduce wind speeds
- By providing food and shelter for wildlife they help increase biodiversity
- They can reduce the effects of flash flooding by slowing the rate at which rainfall reaches the ground
- They can help remediate contaminated soil

On new development sites:

Trees bring many benefits to new development. Where retained successfully they can form important and sustainable elements of green infrastructure, contribute to urban cooling and reduce energy demands in buildings. Their importance is acknowledged in relation to adaptation to the effects of climate change. Other benefits brought by trees include:

- increasing property values;
- visual amenity
- softening, complementing and adding maturity to built form
- displaying seasonal change
- increasing wildlife opportunities in built-up areas
- contributing to screening and shade
- reducing wind speed and turbulence

NATIONAL PLANNING POLICY

Paragraph 6.4.43 of the Planning Policy Wales - Edition 12, February 2024 (PPW) states in relation to Ancient Woodland:

'Ancient woodland, semi-natural woodlands, individual ancient, veteran and heritage trees and ancient hedgerows are irreplaceable natural resources, and have significant landscape, biodiversity and cultural value. Such trees, woodlands and hedgerows are to be afforded protection from development which would result in their loss or deterioration unless very exceptionally there are significant and clearly defined public benefits; this protection must prevent potentially damaging operations and their unnecessary loss139. In the case of a site recorded on the Ancient Woodland Inventory, authorities should consider the advice of NRW. Planning authorities should also have regard to the Ancient Tree Inventory, work to improve its completeness and use it to ensure the protection of trees and woodland and identify opportunities for more planting as part of the Green Infrastructure Assessment, particularly in terms of canopy cover'.

The PPW goes on to state:

'The protection and planting of trees and hedgerows should be delivered, where appropriate, through locally-specific strategies and policies, through imposing conditions when granting planning permission, and/or by making Tree Preservation Orders (TPOs)140. They should also be incorporated into Green Infrastructure Assessments and plans'.

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STATUTORY CONTROLS

Statutory tree protection

Works to trees which are covered by Tree Preservation Orders (TPOs) or are within a Conservation Area (CA) require permission or consent from the Local Planning Authority. Where information is available on any Statutory designations such as this they are identified within the summary table in Section 1 and on the Tree Survey and Constraints Plan at Section 2.

Notwithstanding specific exceptions and in general terms, a TPO prevents the cutting down, uprooting, topping, lopping, wilful damage or wilful destruction of protected trees or woodlands without the prior written consent of the LPA.

Penalties for contravention of a TPO tend to reflect the extent of damage caused but can, in the event of a tree being destroyed, result in a fine of up to £20,000 if convicted in a Magistrates' Court, or an unlimited fine is the matter is determined by the Crown Court.

Similarly, and again notwithstanding specific exceptions, it is an offence to carry out any works to a tree in a Conservation Area with a trunk diameter greater than 75mm diameter at 1.5 height without having first provided the LPA with 6 weeks written notification of intent to carry out the works.

On many non-residential sites (excluding specific exemptions) there is also a statutory restriction relating to tree felling that relates to quantities of timber that can be removed within set time periods. In basic terms, it is an offence to remove more than 5 cubic metres of timber in any one calendar quarter without having first obtained a felling licence from the Forestry Commission.

Any proposed tree works that are planned to be carried out on site must be carried out in accordance with the statutory controls outlined. Therefore, we recommend that a further check is made with the LPA before any tree works are carried out.

Statutory Wildlife Protection

Although preliminary visual checks from ground level of likely wildlife habitats are made at the time of surveying, detailed ecological assessments of wildlife habitats are not made by the arboriculturist and fall outside of the scope for this report.

Trees which contain holes, splits, cracks and cavities could potentially provide a habitat for protected species such as bats in addition to birds and small mammals. It is advised that in some instances specialist ecological advice may be required. This may result in tree works being carried out following a detailed climbing inspection to the tree to ensure that protected species or their nests/roosts are not disturbed. If any are found, the site manager, site owner or consulting arboriculturist should be informed and appropriate action taken as recommended by the appointed Ecologist or the relevant Statutory Nature Conservation Organisation (SNCO): Natural England, Scottish Natural Heritage or Natural Resources Wales.

It is advised that tree/hedgerow works are carried out with the understanding that birds will generally nest in trees, hedges and shrubs between March and August. This time period only provides an indication of likely nesting times and as such diligence is required when undertaking tree works at all times.

Irrespective of the time of year and other than any actions approved under General Licence, it is an offence to intentionally kill, injure or take any wild bird or to intentionally take, damage or destroy the nest or eggs of any wild bird. Ideally, tree operations should be avoided during the likely bird nesting period. However, any tree works should always only be carried out following a preliminary visual check of the vegetation.

For information, the Wildlife and Countryside Act 1981 (as amended), The Countryside and Rights of Way Act 2000 (as amended) and the Conservation of Habitat and Species Regulations 2010, form the basis of the statutory legislation for flora and fauna in England and Wales. A different legislative framework applies in Scotland and Northern Ireland.
Any proposed tree works that are planned to be carried out on site must be carried out in accordance with any relevant statutory controls, outlined above.

DESIGN GUIDANCE

Approach

The approach adopts the guidelines set out in the British Standard BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations. The process is broken down to coordinate with the key elements within both the RIBA Plan of Work (2013) and British Standard 5837:2012 as set out in the table below:

Information Stage	RIBA Stage	BS5837:2012
Stage A – Tree Survey	2: Concept	4: Feasibility
Stage B – Arboricultural Impact Assessment	3: Developed design	5: Proposals
Stage C – Arboricultural Method Statement	4: Technical design	6: Technical Design
Stage D – Arboricultural Site Supervision	5: Construction	7: Demolition and construction

A hierarchical approach is adopted in order to achieve optimum use of the site and location of built structures. This is set out below:

Avoid

The starting point of Site layout design should be to avoid the RPA of retained trees and provide suitable clearance from above ground constraints [tree canopies]. Where possible building lines should be at least 2m outside the RPA to provide working space for construction. However, protection measures can be taken if such clearance is not achievable.

Mitigate

Where intrusion within the RPA is unavoidable then its impact on the tree can be mitigated by specialist measures:

Foundations that avoid trenching e.g. screw piles, suspended floor slabs or casting at ground level for lightweight structures such as bin and cycle stores.

Limited use may be made for parking, drives or hard surfaces within the root protection areas, subject to advice from a qualified arboriculturist. Cellular confinement systems that enable hard surfaces to be built above existing soil levels are acceptable methods subject to site-specific soil conditions.

Service runs that cannot be routed outside the RPA(s) can be installed by, for example, thrust boring, directional drilling, air excavation or hand digging. These operations often require supervision by the project arboriculturist.

Compensate

Replacement planting can ensure the continuity of tree cover where tree removal is unavoidable or desirable. Off-site provision may be considered in some circumstances but this will require negotiation with the local planning authority.

Considerations:

For proposed residential developments, consideration must be given to numerous factors future tree growth and orientation.

Tree constraints

Root Protection Areas:

With reference to BS5837:2012, a root protection area (RPA) is defined as "a layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of the roots and soil structure should be treated as a priority". "**The default position [when considering design layout in relation to RPAs] should be that structures are located outside the RPAs of trees to be retained**".

BS5837:2012 states (4.6.2) that, "where pre-existing site conditions or other factors indicate that rooting has occurred asymmetrically, a polygon of equivalent area should be produced." The BS goes on to state that, "modifications to the shape of the RPA should reflect a soundly based arboricultural assessment of likely root distribution," and that any deviation from the original circular plot should take into account:

- Morphology and disposition of roots;
- topography and drainage;
- soil type and structure;
- the likely tolerance of the tree to root damage/disturbance.

Additional buffer zones beyond the RPA:

The following text is taken from the Standing Advice produced by the Forestry Commission and Natural England as included in the National Planning Policy Guidance:

'A buffer zone's purpose is to protect ancient woodland and individual ancient or veteran trees. The size and type of buffer zone should vary depending on the scale, type and impact of the development'.

Ancient woodland buffer:

'For ancient woodlands, you should have a buffer zone of at least 15 metres to avoid root damage. Where assessment shows other impacts are likely to extend beyond this distance, you're likely to need a larger buffer zone. For example, the effect of air pollution from development that results in a significant increase in traffic'.

Ancient and veteran tree buffer:

'A buffer zone around an ancient or veteran tree should be at least 15 times larger than the diameter of the tree. The buffer zone should be 5m from the edge of the tree's canopy if that area is larger than 15 times the tree's diameter'.

Above ground:

Above ground constraints posed by trees describe the capacity for trees to have an overbearing or dominating effect on new developments; usually post-occupancy. Typical above ground constraints include a number or combination of inconveniences including shading, branch spread, movement of trees during strong winds and so on. If not adequately considered, above ground constraints can lead to repeated requests to fell or heavily prune retained and protected trees.

Shade:

Adverse shading and blocked views from windows raise concerns for incoming residents, which may lead to pressure to fell or remove trees in the future. Wherever possible, it is advisable to arrange fenestration away from tree canopies to lessen the conflict or increase window size to accommodate ambient light.

Conversely, appropriately designed development can use existing or new trees to create necessary and welcome shade and screening.

As part of the adopted approach, the above considerations and constraints are assessed cumulatively to provide clear and site-specific advice on the areas of a site most suitable for the location of development.

Dependent on the site and nature of the proposed development, the Tree Survey and Constraints Plans may show the following:

Recommended Developable area - an advisory area defined to minimise arboricultural impacts using standard approaches to construction. Restricting proposed development to this area will limit the risk of harm to retained trees and of the Local Planning Authority objecting to the proposed development. It may be possible to propose development outside of this area, but specific 'low impact' construction techniques may need to be recommended.

Recommended Buffer to development - similar to the Recommend Developable Area but defined as a line marking a suitable buffer to retained trees. More commonly used on large sites or sites where the presence of trees is localised.

Tree Opportunities

Depending on the scale of developments existing trees can often provide opportunities to enhance the existing arboricultural resource of a site by bringing it into good management or by putting in place remedial measures e.g. soil amelioration.

Appropriately designed new tree planting is extremely important in maintaining healthy and sustainable tree populations. For the reasons highlighted, new trees can bring many benefits to new developments. It is critical to the establishment of new tree planting that the locations, species and specification of new trees is appropriate. Subsequently the sourcing of high-quality stock, suitable planting and the provision of post planting mainte-ce are essential to allow new trees to establish and to allow them to mature.

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HOW TREE DAMAGE CAN OCCUR

Above the ground

Damage can occur as a result of knocks and scuffs, breakages of branches and/or tree trunks. This is often but not always associated with machine operations, groundworks excavations, tele handlers, high sided vehicles and crane use. Other forms of above ground damage include fixings to trunk and unauthorised cutting back of branches. Wounds will harm a tree's health and shorten its life by letting in disease-causing organisms.

Below the ground

It is often not appreciated that the majority of most tree roots are generally located within the top 600mm of the ground. On this basis it needs to be understood that damage to roots can occur in three ways:

- Root severance can occur as a result of, for example, soil stripping during site clearance or excavations.
- Root dieback and death can result from compaction of the soil. Compaction can occur as a result of vehicle weight, weight of stored materials or increased pedestrian access. Compaction crushes out soil pore space and prevents tree respiration from occurring (respiration requires gas exchange between the ground and the atmosphere). Compacted soil is denser and therefore inhibits/prevents any further new root growth.
- Pollution of the soil with chemicals such as oil or cement washings can destroy the soil environment, making it inhospitable for the tree cause causing it stress.

The effects of these impacts can be disfiguring to a tree's appearance and also weaken a tree making it more liable to attack by pest and diseases. In addition, root damage or death results in corresponding decline above the ground with dieback occurring within the tree crown.

The effects of damage to trees generally take some time to become fully apparent. In many cases, damaged trees decline slowly after the completion of a new development, until they eventually need to be removed due to ill health.

Tree protection barriers and load distributing 'no-dig' paths are specified in order to prevent soil compaction from taking place.

GENERAL SITE RULES FOR TREE PROTECTION

Do not independently carry out any activity that is at odds with the site scheme of tree protection. This is contained within an approved Arboricultural Method Statement (AMS) and accompanying Tree Protection Plan.

In simple terms: do not carry out any work within any Construction Exclusion Zone (CEZ) without prior liaison with the Project Arboriculturist and written authorisation from the Local Planning Authority.

Within the CEZ:

- No mixing of cement
- No soil/turf stripping, raising/lowering of ground levels (unless advised), deposit or excavation of soil or rubble
- No excavations for services or installation of services
- No storage of materials, machinery fuel, chemicals or other materials of any other description
- No parking/use of tracked or wheeled machinery
- No siting of temporary structures including hard standing areas, portaloos, site huts
- No lighting of fires or disposal of liquids
- Fires on site should be avoided if possible. Where they are unavoidable, they must not be lit in a position where heat could damage foliage or branches. Fires must be a minimum of 20m from the trunk of any retained tree or the centre line of any hedgerow to be retained
- No signs, cables, fixtures or fittings of any other description shall be attached to any part of a retained tree.



CONSTRUCTION EXCLUSION ZONE - NO ENTRY

TREE PROTECTION FENCING

THIS FENCE MUST BE MAINTAINED IN ACCORDANCE WITH THE APPROVED TREE PROTECTION PLANS AND ARBORICULTURAL METHOD STATEMENT FOR THIS DEVELOPMENT.

TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS AND/OR ARE THE SUBJECTS OF A TREE PRESERVATION ORDER.
CONTRAVENTION CAN RESULT IN BREACH OF PLANNING CONDITIONS AND/OR CRIMINAL PROSECUTION.
(TOWN AND COUNTRY PLANNING ACT 1990)

FOR ALL ENQUIRIES REGARDING TREES AT THIS DEVELOPMENT
PLEASE CALL 01386 576161 OR EMAIL ENQUIRIES@BARTON-HYETT.CO.UK

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