



JLR & On-Site Energy

SOLAR PHOTVOLTAIC (PV) CANOPIES

JLR, Halewood





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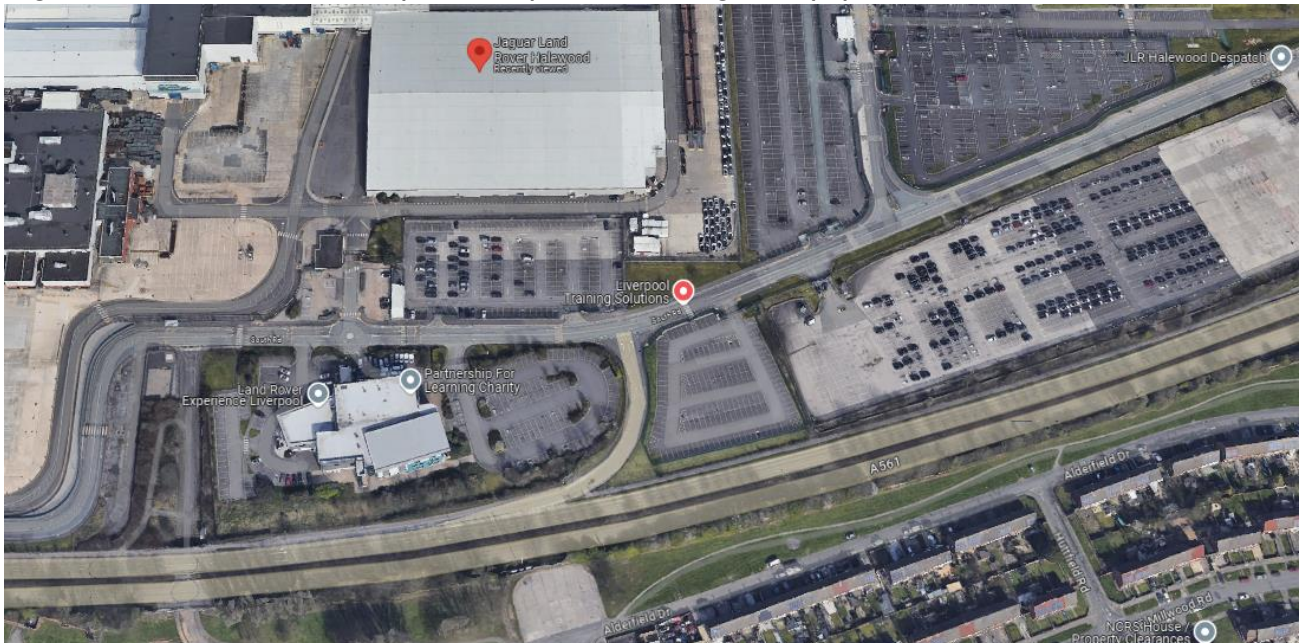
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Figure 2-1 - Site Plan: Canopies 1-5 (Source: Google Maps)



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Figure 2-2 - Site Plan: Canopies 6-8 (Source: Google Maps)



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APPENDICES

APPENDIX A

SITE LOCATION PLAN

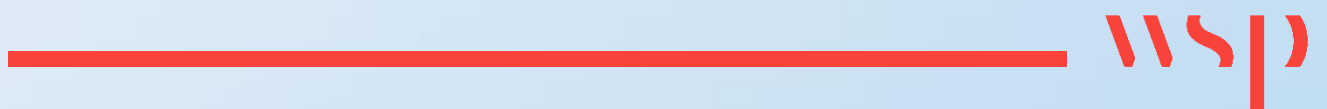
APPENDIX B

SOUTH ROAD VIEW



1

INTRODUCTION



1 INTRODUCTION

- 1.1.1. This Planning Statement has been prepared by WSP on behalf of JLR and On-Site Energy (Joint applicants) in support of a planning application submitted to Knowsley Council for the erection and installation of Solar Photovoltaic (PV) Canopies at JLR, Halewood.
- 1.1.2. The application sites form eight separate red-line boundaries located on existing pedestrian walkways (See Appendix 1 for Site Location Plan). However, for the purposes of this application, the sites will be clustered into two distinct areas: 'North' (Sites 1-5), and 'South' (Sites 6-8).
- 1.1.3. JLR and On-Site Energy propose installing solar canopies over existing footpaths at the Halewood plant in Liverpool. This initiative aligns with JLR's wider solar rollout plan and supports the sustainability goals outlined in its 'Reimagine Strategy.' The development is consistent with both local and national renewable energy policies and targets.
- 1.1.4. This application is therefore seeking planning permission for the:
"Installation of Ground Mounted photovoltaic (PV) canopies on existing footpaths, at JLR, Halewood"
- 1.1.5. Sites 1-5 are located north of the JLR plant, with existing walkways running parallel to North Road (the internal link road for JLR). The canopies seek to provide weatherproof links for employees travelling between the northern car parks and the main manufacturing plant to the south.
- 1.1.6. Sites 6-8 are located south of the JLR plant, with existing footpaths running along South Road. These canopies aim to provide a weatherproof link for employees using the car parks on both the north and south sides, enabling direct access to the main manufacturing plant to the south.
- 1.1.7. The application seeks to utilise existing footpaths to the north and south of the JLR site, and construct 8 simple, 'bus-stop' like canopies totalling a site area of 1,243 sqm. A total of 944 solar PV panels will be erected on the roof of these canopies, which is predicted to produce a total approximate maximum output of 284,000 kWh per annum.
- 1.1.8. In March 2024, JLR announced its renewable energy plan, highlighting its aspiration to generate over a quarter of its UK electricity through Off-Grid renewable sources. The strategy includes targeted solar projects at sites such as Halewood, to increase self-generated electricity capability by 16%. The global renewables strategy aims to increase JLR's resilience to energy supply issues and reduce exposure to market volatility, as well as support JLR's long-term goal of carbon net zero emissions across its entire operations by 2039 as part of JLR's 'Reimagine strategy'.
- 1.1.9. JLR is committed to managing its carbon net zero energy transition against the challenging backdrop of volatile climate situations. The development proposals demonstrate JLR's continued efforts in reducing emissions across its operations and continuous investment in the Halewood plant.
- 1.1.10. The purpose of this statement is to demonstrate that the development complies with the relevant policies in the development plan, having regard to any other material planning considerations.

1.1.11. In summary, this statement demonstrates that:

- The principle of development complies with national and local planning policy in which Knowsley Council are supportive of the introduction of renewable energy sources at JLR in line with Policy CS2 and CS4;
- The proposal is in keeping with the existing industrial site and is acceptable in design terms;
- The proposed development complies with national planning policy and is supported by appropriate drawings;
- The proposed development will complement existing JLR operations and provide a weatherproofed canopy solution for existing employees in a logical and sustainable location connecting to existing facilities;
- The development will not have a severe or detrimental impact on highways with no changes proposed to the existing highways; and
- The drawings submitted conclude the site and proposed development is acceptable.

1.1.12. The following documents have been prepared and submitted in support of this application:

- Completed and signed application form and certificates;
- Existing and proposed drawings, including a site location plan;
- Lepton Solar Photovoltaic (PV) Specification Sheet; and
- Planning Statement, prepared by WSP.

STRUCTURE OF THE REPORT

1.1.13. This Planning Statement is structured as follows:

- Section 2 sets out the site context and its surroundings;
- Section 3 outlines the proposed development;
- Section 4 sets out the relevant planning policies at a local and national level;
- Section 5 provides the case for development and explains why the principle of development is acceptable; and
- Section 6 sets out the conclusions.

1.1.14. This Planning Statement concludes that planning permission should be granted as the application complies with all relevant aspects of the development plan, the NPPF, and all other material considerations.

2

SITES AND SURROUNDINGS



2 SITES AND SURROUNDINGS

- 2.1.1. JLR Halewood Plant is located on the southern boundary of Knowsley Council, within Halewood South Ward.
- 2.1.2. The total site area extends to approximately 1,243 sqm, with the wider JLR plant extending to 124 ha. The proposal comprises 8 separate canopies, grouped in two locations. The development seeks to provide a total of 944 solar PV panels, estimated to generate a total output of approximately 284,000 kWh per annum.
- 2.1.3. The sites are clustered into two separate distinct locations; 'north' (Sites 1-5) and 'south' (Sites 6-8).

2.2 SITES 1-5: NORTHERN CANOPIES

- 2.2.1. Canopies proposed to the north are situated on the existing footpaths which run adjacent to north road, an internal link road within the Halewood Plant. The footpaths abut several existing car parks to the north which are currently used for staff parking and Work-In-Progress (WIP) parking.
- 2.2.2. There is a 4-track railway to the north of the sites and the nearest residential properties are over 50 metres away on Redbourne Avenue.
- 2.2.3. The pedestrian footpaths extend along North Road, a private internal road, owned by JLR which connects the site east to west. Direct access is provided to the main manufacturing plant to the south for employees using these car parks. The canopies will provide a weatherproofed walkway for users of these car parking facilities and access to the wider JLR plant.
- 2.2.4. The image below shows the separate development sites, within the context of the wider JLR plant.

Figure 2-1 - Site Plan: Canopies 1-5 (Source: Google Maps)

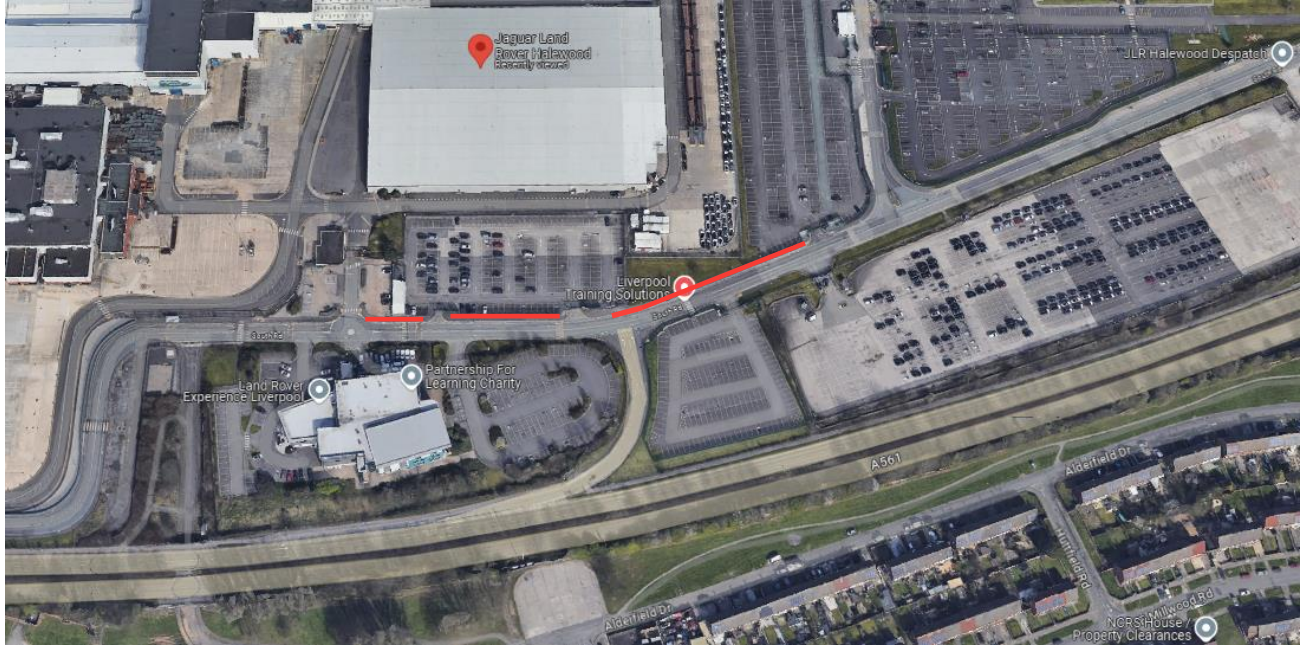


2.3 SITES 6-8: SOUTHERN CANOPIES

- 2.3.1. Canopies proposed to the south are situated on the existing footpaths which run adjacent to South Road, an internal link road within the Halewood Plant. The footpaths abut several existing car parks to the south which are currently used for staff parking and Work-In-Progress (WIP) parking.
- 2.3.2. Speke Boulevard runs to the south of the sites. The nearest residential properties are over 130 metres away on Alderfield Drive, separated by Speke Boulevard and significant mature landscaping.

- 2.3.3. The pedestrian footpaths extend across three separate locations along South Road, connecting the site east to west. Direct access is provided to the main manufacturing plant to the north for employees using these car parks. The canopies will provide a weatherproofed walkway for users of these car parking facilities and access to the wider manufacturing plant.
- 2.3.4. The image below shows the separate development sites, within the context of the wider JLR plant.

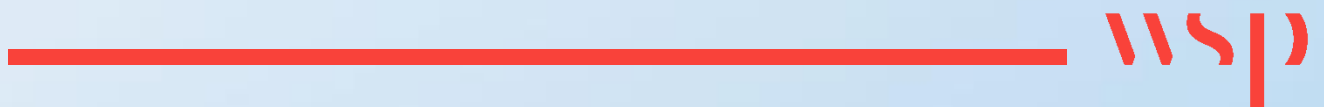
Figure 2-2 - Site Plan: Canopies 6-8 (Source: Google Maps)



- 2.3.5. Access to all sites is provided via the internal highway network within the Halewood plant. Access is restricted to members of the public.
- 2.3.6. The sites lie within Flood Zone 1, classified as very low risk in terms of risk of flooding from rivers and seas. The Environment Agency Surface Water Flood Risk maps indicates that the sites are also at low risk of surface water flooding.
- 2.3.7. JLR Halewood is within a designated primary industrial area under saved policy EC3 of the Knowsley Replacement Unitary Development Plan whereby the council supports the delivery and retention of B1, B2 and B8 uses.
- 2.3.8. The Knowsley Core Strategy further supports the site's employment status through policy CS4 which directly supports the principle of new development to assist the continued operation of existing employment sites through 164 hectares of employment land. The site is identified as a key employment site that forms an essential part of the borough's overall employment land supply.

3

DESCRIPTION OF PROPOSALS



3 DESCRIPTION OF PROPOSALS

3.1 BACKGROUND TO THE APPLICATION

- 3.1.1. JLR, Halewood employs approximately 3,700 people, in which the site has been benchmarked to be a key contributing plant to achieve the aspirations set out within JLR's 'Reimagine' strategy which promotes a sustainability-rich approach to car manufacturing.
- 3.1.2. The Halewood plant is now transitioning to the production of new electric variants to meet JLR's sustainability targets for the future. This application, alongside many others seen to date at the plant, demonstrates JLR's streamlined structure, investing in existing manufacturing facilities to deliver greater agility and resilience for the future. These efforts are the start of JLR's journey in its aspiration of becoming a carbon net zero-carbon business by 2039.
- 3.1.3. As of March 2024, JLR announced its renewable energy plan, which is to be rolled out across their national estate to increase JLR's resilience to energy supply issues and reduce exposure to market volatility, whilst aligning to the goals as set out within the Reimagine strategy. JLR's new off-grid energy projects aim to produce almost 120 Mega Watts (MW) of renewable energy at their peak, enough to power nearly 44,500 homes or charge 2.7 million I-PACE batteries annually.
- 3.1.4. Central to these plans is the installation of a variety of solar types designed to maximise the unique qualities of each of JLR's sites, initially focusing on key manufacturing and non-production locations in the UK, which includes Halewood. Halewood has been earmarked to be one of the first JLR sites to introduce a wide range of PV across the site.
- 3.1.5. The joint applicant, On-Site Energy, is working with JLR on the delivery of its solar programme.

3.2 PROPOSED DEVELOPMENT

- 3.2.1. The application seeks permission for:

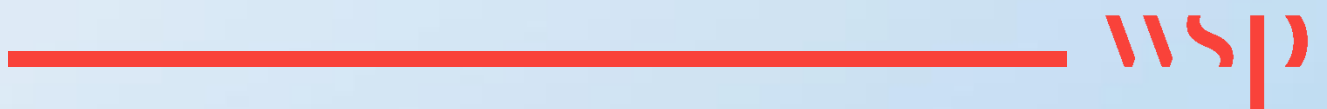
"Installation of Ground Mounted photovoltaic (PV) canopies on existing footpaths, at JLR, Halewood."
- 3.2.2. The proposed solar array will include the erection of solar canopies across 8 of JLR's existing footpaths, located to the north and south of the site. The site area combined covers approximately 1,243 sqm. For ease, the development proposals for each site have been broken down below.
- 3.2.3. The proposals will include the installation of 944 solar PV panels, which are estimated to generate a total of 284,000 kWh of electricity at per annum.
- 3.2.4. The proposal includes:

PLAN REFERENCE (Proposed Site Plan)	FOOTPATH	PV TYPE	TOTAL NUMBER OF PV PANELS PROPOSED	SITE TOTAL NOMINAL POWER (DC) PER ANNUM
JLR2 202 241010	1	Leapton Solar (600- 625W)	96	284,000 kWh
JLR2 203 241010	2		488	
JLR2 204 241010	3		112	
JLR2 205 241010	4		24	
JLR2 206 241010	5		84	
JLR2 207 241010	6		16	
JLR2 208 241010	7		36	
JLR2 209 241010	8		88	
TOTAL	944 PV Panels			

- 3.2.5. The canopies will be constructed with aluminium support frames, incorporating galvanized steel posts and base fixings. The location of the walkways were selected for their proximity to existing facilities and direct connections to the manufacturing plant, existing car parks and surrounding site.
- 3.2.6. The canopies are positioned above existing footpaths and will not interfere with vehicular traffic on North or South Road. Their installation will not interfere with current operations or disrupt daily activities on-site.
- 3.2.7. The canopies will provide weatherproof linkages, offering shelter from rain, wind, and harsh sunlight, thereby enhancing the comfort, amenity and safety of employees moving between parking areas and the main facility.
- 3.2.8. The solar canopies will generate renewable energy, helping JLR meet its sustainability targets, such as reducing carbon emissions and contributing to the use of green energy on-site.

4

PLANNING POLICY



4 PLANNING POLICY

4.1 PLANNING POLICY CONTEXT

- 4.1.1. In the context of this application, planning policy operates at two levels:
- **National:** The Government produces national policy in the form of the National Planning Policy Framework ('NPPF') (2023) and the supporting National Planning Policy Guidance ('PPG'); and
 - **Local:** The Knowsley Local Plan Core Strategy was adopted in January 2016 to inform development through the use of detailed policies up to 2028 and beyond.
- 4.1.2. Section 38 (6) of the Planning and Compulsory Purchase Act (2004) requires any planning application to be determined in accordance with the development plan unless material considerations indicate otherwise.

4.2 NATIONAL PLANNING POLICY

- 4.2.1. The NPPF was published on 24 July 2018 with additional amendments made in July 2021 and December 2023. Any applications made after this date are required to give material consideration to this version, even if the adopted development plan documents were adopted under the previous NPPF (2012).
- 4.2.2. The NPPF (2023) emphasises the importance of sustainable development and sets out the core planning principles guided by the Government's planning policies. Under paragraph 47, development proposals that accord with the development plan should be approved without delay.
- 4.2.3. In addition, the NPPF advocates for planning policies and decisions to help create the conditions in which businesses can invest, expand, and adapt, with significant weight to be placed on the need to support economic growth and productivity.

4.3 LOCAL PLANNING POLICY

- 4.3.1. The Knowsley Local Plan Core Strategy was adopted in January 2016 and includes various policies of relevance to this development.

POLICIES

- SD1 – Sustainable Development: Reflects the desire for sustainable and positive development advocated for within the NPPF.
- CS1 – Spatial Strategy for Knowsley: Sets out Knowsley Council's Spatial Development Priorities and how it aims to achieve them. One such priority includes the desire to “enhance existing employment areas”.
- CS2 – Development Principles: Establishes the Council's 5 development principles and approaches to achieve them, these principles vary to address challenges including income inequality, carbon emissions, car dependency, environmental issues, and resource efficiency.
- CS4 – Economy and Employment: Lists the interventions to be used by the Council to support economic prosperity within the region.
- CS11 – Principal Regeneration Areas: Knowsley Industrial and Business Parks: Commits support towards the regeneration of Knowsley's industrial and business parks to support B1, B2 and B8 uses.

- CS19 – Design Quality and Accessibility in New Development: Explores the need for new development to enhance local distinctiveness and maintain a good standard of amenity for all existing and future occupants of land and buildings. Development should where possible address the challenges of climate change and future changes in social, economic, and environmental priorities.
- CS22 – Sustainable and Low Carbon Development: Details the high standards of sustainable design and construction required for new development, aimed at minimising carbon emissions.
- CS23 – Renewable and Low Carbon Infrastructure: Commits the council to support proposals that produce and distribute decentralised, low carbon and renewable energy provided that they do not cause significant harm to other strategic objectives.
- CS24 – Managing Flood Risk: Details the Council’s approach towards development resulting in increased flood risk or located within areas of high flood risk.
- CS26 – Waste Management: Details the waste hierarchy and management strategy set out by the Merseyside and Halton Joint Waste Local Plan.
- CS27 – Planning and Paying for New Infrastructure: Establishes the Council’s infrastructure provision principles, approach to developer contributions and economic-viability.
- In addition, the following policies were saved from the Unitary Development Plan (adopted June 2006), and therefore remain relevant to these proposals:

4.3.2. In addition, the following policies were saved from the Unitary Development Plan (adopted June 2006), and therefore remain relevant to these proposals:

- EC2 – Sites Allocated for Employment Development: Details areas allocated for B1, B2 and B8 development including ‘Eastern Compound Land, Speke Boulevard, Halewood’.
- EC3 – Primarily Industrial Areas: Explains the allocation of Primarily Industrial Areas, in which the site is included, and details that development would only be acceptable if they were complementary and compatible with existing use, consistent with the regeneration strategy, preserved the local image and avoided unacceptable loss of land for industrial development.

4.4 OTHER MATERIAL CONSIDERATIONS

4.4.1. The following Supplementary Planning Documents (‘SPD’) are considered to be relevant to this proposal:

- Developer Contributions SPD;
- Ensuring a Choice of Travel SPD; and
- Adding Social Value to Development: Employment and Skills SPD.

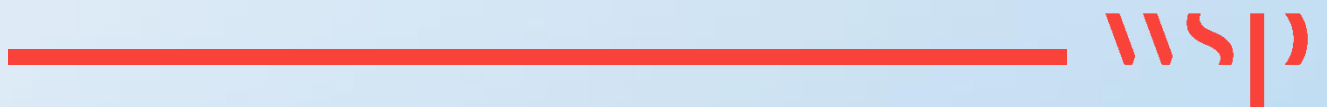
4.5 EMERGING PLANNING POLICY

LIVERPOOL CITY REGION SPATIAL DEVELOPMENT STRATEGY

- 4.5.1. The emerging Liverpool City Region Spatial Development Strategy is currently out for public engagement following the publication of the draft document. The consultation period will run until 16 February 2024.
- 4.5.2. Policy LCR SP2 Strategic Employment Land Need and Distribution names the JLR site as an existing Strategic Employment Site within the region.
- 4.5.3. Policy LCR DP11 Energy supports proposals that contribute towards the reduction of carbon associated with energy generation and consumption.

5

PLANNING CONSIDERATIONS



5 PLANNING CONSIDERATIONS

- 5.1.1. This section assessed the development against local and national planning policy and other material considerations as listed at Section 4. This assessment concludes that the proposal is wholly compliant with planning policy and should therefore be permitted.

5.2 PRINCIPLE OF DEVELOPMENT

- 5.2.1. The development is in full alignment with the site's allocation as a primarily industrial area, in accordance with Core Strategy policies CS2 and CS4.
- 5.2.2. The proposal demonstrates JLR's continued investment into the prosperity and resilience of the Halewood site. The installation of solar canopies will support the Halewood Plant in its transition towards becoming an all-electric manufacturing facility, whilst meeting their aspirations as set out within their renewable energy plan. Policies CS2 and CS4 support such uses and seek to promote sustainable economic growth to meet the development needs of established employment sectors.
- 5.2.3. JLR Halewood is recognised as a large industrial site which plays a crucial economic role within the City Region. The proposed development is necessary to ensure JLR can enhance its logistic operations to continue to meet current demands and ensure seamless manufacturing with zero losses and sustainability at the heart.
- 5.2.4. The site is within a designated primary industrial area under saved Policy EC3 of the Knowsley Replacement Unitary Development Plan whereby the council supports the delivery and retention of B1, B2 and B8 uses. The Knowsley Core Strategy further supports the site's employment status through Policy CS4 which directly supports the principle of new development.
- 5.2.5. The site is identified as a key employment site which forms an essential part of the borough's overall employment land supply and therefore the principle of development is established. Whilst the development will not create any additional employment, it will enable JLR to maintain and enhance its operations at the Halewood plant, where many local residents are already employed.
- 5.2.6. The installation of solar canopies over walkways at JLR, Halewood, provides clear environmental, operational, and economic benefits. This development not only supports JLR's commitment to sustainability but also improves infrastructure for employees while making efficient use of existing space. The canopies will enhance the site's energy resilience and help position JLR as a leader in sustainable manufacturing.
- 5.2.7. The proposals are therefore deemed to be in accordance with Policies CS22 and CS23 of the Core Strategy which supports proposals that produce renewable and low-carbon infrastructure.

5.3 DESIGN AND LAYOUT

- 5.3.1. The development has been designed to reflect the industrial nature of the existing site. The materials, scale, and overall design of the canopies is wholly in keeping with the other industrial buildings within the JLR complex, taking a cohesive design approach. The development is therefore compliant with Core Strategy policy CS19.
- 5.3.2. The scale of the proposed development will be in keeping with the JLR site. It will be read in the context of the wider factory. The canopies will have an overall height of 2.796mm and be

constructed using aluminium support frames and galvanized steel posts which are in keeping with the materials currently seen on site.

- 5.3.3. The northern sites are screened to the south by a 4-track railway and substantial landscape buffers, while the southern sites are separated by Speke Boulevard and informal mature landscaping (See Appendix B for a view from South Road). As a result, the development will not be seen nor affect the amenity of nearby residents.
- 5.3.4. The canopies will shield employees from adverse weather conditions as they move between parking areas and the main facility, making daily commutes more comfortable, especially during bad weather.
- 5.3.5. Solar energy harnessed from the PV canopies will reduce the reliance on grid electricity, producing approximately 284,000 kWh per annum, contributing to lower energy costs and improving overall energy efficiency for the facility. The solar canopies will generate renewable energy, helping JLR meet its net zero aspirations, alongside local and national sustainability energy targets.
- 5.3.6. Paragraph 157 of the NPPF 2021 confirms that applicants are not required to demonstrate the overall need for renewable or low carbon energy and that local planning authorities (LPAs) should recognise that even small-scale projects provide a valuable contribution to cutting greenhouse gas emissions. LPAs are directed to approve applications if impacts are deemed to be acceptable.
- 5.3.7. The development therefore is in accordance with Core Strategy Policy CS22 and CS23 and paragraphs 157 and 163 of the NPPF which supports the adoption of renewable energy installations.

5.4 HIGHWAYS

- 5.4.1. The application sites are on land owned by JLR and within the extent of JLR, Halewood. Direct access to the sites is provided via the existing highway network circulating the site. Due to the proposals using existing footpaths, no changes are proposed or required to the existing highway network. The internal road also provides direct connections to the A561 Speke Boulevard and the A562 Higher Road via Old Hutte Lane.
- 5.4.2. The majority of the highway network circulating the plant is privately owned by JLR. There are gates on North Road, Old Hutte Lane, the slip roads between East Road and the A561 Speke Boulevard and South Road. Each of these gates are closed only one day per year on Christmas Day to retain its private status.
- 5.4.3. The development does not result in a net increase of employees, parking demand, parking spaces, alterations to the existing highway network and number or frequency of deliveries. Therefore, the proposed development will not result in a net increase in traffic or parking volumes. The development therefore is deemed to be in accordance with Core Strategy Policy CS7.

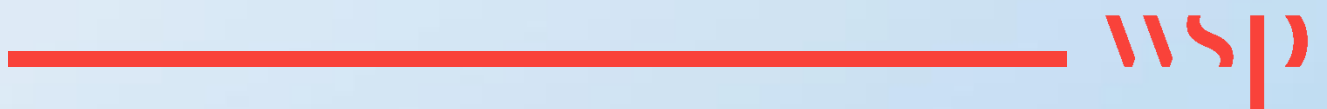
5.5 GLINT AND GLARE

- 5.5.1. The solar panels included within these development proposals, feature a bifocal design, which includes a 2.00mm anti-reflective coating to maximize sunlight absorption and minimize reflectivity. This ensures that most of the sunlight is converted into energy, rather than being reflected, significantly reducing the potential for glint and glare.

- 5.5.2. Given the location of the canopies over footpaths and away from residential properties, roads, or air traffic, the likelihood of glint or glare affecting surrounding areas, especially nearby residents or drivers, is deemed to be de minimis. The solar panels are to be orientated to the south.
- 5.5.3. The canopies to the south are separated from residential properties and major roads (such as Speke Boulevard) by a significant distance, as well as existing landscape buffers and infrastructure. See Appendix B for images. To the north, residential properties will remain unaffected, due to the orientation of the panels, and additional buffers including existing landscaping. These features further reduce any potential risk of glare impacting drivers, residents, or causing distractions on roadways.
- 5.5.4. Solar canopies near aviation routes are unlikely to cause issues with aircraft, as modern solar panels are tested to ensure they do not produce dangerous reflections that could interfere with flight paths or navigation. The PV panels will feature a bifocal design, including a 2.00mm anti-reflection coating to minimize any potential cumulative impacts.
- 5.5.5. The proposed development is unlikely to result in any adverse impacts in relation to glint and glare and is therefore deemed to be in line with the requirements of policies CS22 and CS23 of the Core Strategy.

6

CONCLUSION

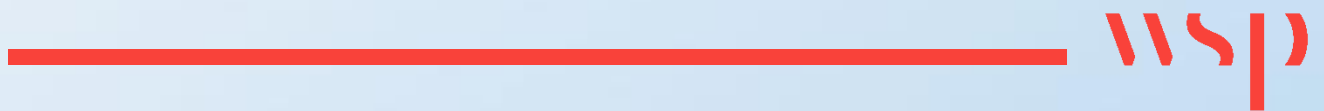


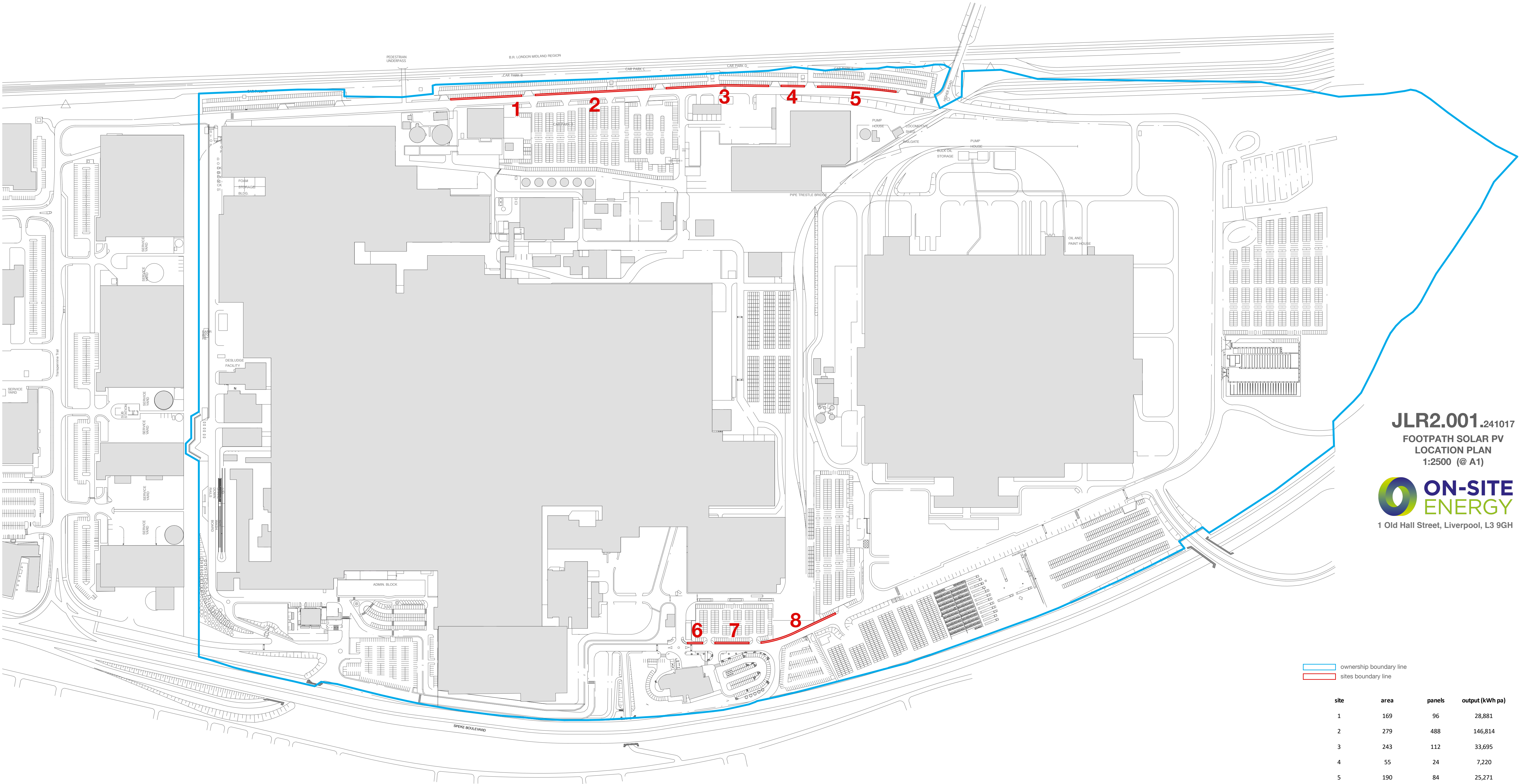
6 CONCLUSION

- 6.1.1. This Planning Statement has been prepared to support the installation of ground-mounted solar PV canopies, at JLR, Halewood.
- 6.1.2. The development results in improvements to the operational efficiency and economic resilience of the site and supports the function of the industrial use of the land which is in accordance with the adopted Local Plan.
- 6.1.3. The canopies have been designed to be consistent with the industrial aesthetic of the wider site and will therefore blend acceptably with the surrounding buildings. The north and south sites will not be visible from the closest residential properties and are separated by significant landscape buffers, highway networks and infrastructure. The proposed walkways will provide weatherproofed linkages for employees connecting users to the manufacturing plant and wider JLR site.
- 6.1.4. The proposed PV array across all 8 sites would be capable of producing 284,000 KWh of power per annum. The proposed array across the sites will reduce the demand for electricity from the existing national grid and promote the use of more sustainable resources. The power generated will also help to meet onsite electricity needs. The proposal is therefore considered to constitute sustainable development providing a renewable electricity source for the Halewood plant.
- 6.1.5. The proposal achieves the goals of sustainable development and is in accordance with local and national planning policy as well as meeting the aspirations set out within JLRs renewable energy plan, targeting JLR to be carbon net zero by 2039.
- 6.1.6. Section 38(6) of the Planning and Compulsory Purchase Act 2004 states that planning decisions must be made in accordance with the Development Plan unless material considerations indicate otherwise.
- 6.1.7. This Planning Statement and all other supporting documentation demonstrate that the scheme is compliant with local and national planning policies, and it should therefore be approved without delay.

Appendix A

SITE LOCATION PLAN





JLR2.001.241017
FOOTPATH SOLAR PV
LOCATION PLAN
1:2500 (@ A1)



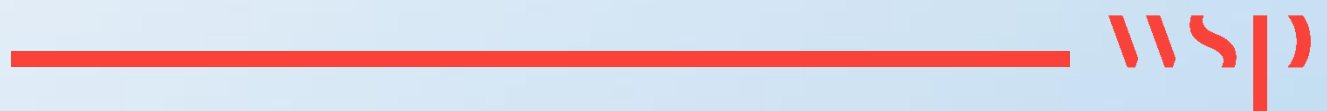
ownership boundary line
sites boundary line

site	area	panels	output (kWh pa)
1	169	96	28,881
2	279	488	146,814
3	243	112	33,695
4	55	24	7,220
5	190	84	25,271
SUBTOTAL N	936	804	241,880
6	36	16	4,814
7	81	36	10,831
8	190	88	26,475
SUBTOTAL S	307	140	42,120
TOTAL	1243	944	284,000



Appendix B

VIEW FROM SOUTH ROAD









20



JLR

- ← ALL VISITORS
- ← GOODS DELIVERIES
- ← PARTNERSHIP FOR LEARNING
- ← BOULEVARD INDUSTRY PARK

Access
to Gates 2 & 3
via Gates 2 & 3
Low Diversion







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