

Patron His Majesty The King

Bringing Horses
and People Together

The British Horse Society

Abbey Park,
Stareton,
Kenilworth,
Warwickshire CV8 2XZ

Email enquiry@bhs.org.uk

Website www.bhs.org.uk

Tel 02476 840500

Fax 02476 840501



10th December 2024

Mr Graham Sword, Examining Authority
Via email Stonestreetgreensolar@planninginspectorate.gov.uk

Your Ref: EN010135
Our registration identification number: 20050395

Dear Mr Sword

RE: Application by EPL 001 Limited for an Order Granting Development Consent for Stonestreet Green Solar

This is a written representation provided on behalf of the British Horse Society, the UK's largest equestrian charity with 125,000 members representing the country's 3.2 million horse riders.

There are over 40,000¹ horses passported to residents living in Kent, with an economic contribution of over £285 million per annum² to the economy, much of which is spent locally (livery yards, farriers, vets, feed and hay, etc.). Whilst walkers have 100% of the public rights of way (PROW) network, in Kent horse riders have just 16.7% (carriage drivers substantially less). Increasing pressure for development of houses, industry and massive infrastructure projects such as this make even fewer of those bridleways and byways available and/or safe. Traffic increases arising during, or as a result of, new development mean roads become even less safe for horse-riders and carriage-drivers to use in order to access the few traffic-free routes that exist for them.

Contrary to NPPF paras 96(c), 102 and 104, it seems that this application does not seek to enable or support healthy lifestyles nor protect or enhance local public rights of way, indeed rather the opposite. We would suggest, as we did during the consultation phase, that a perimeter bridleway should be provided for the duration of the solar panels being located in this area. There may be pinch points where an optimum width could not be achieved but this is acceptable provided that visibility is good. This would go some way to mitigating for the impact on local vulnerable road users such as horse riders, walkers, etc.

It has previously been suggested that there are very few horse riders in the area and so they were not considered a priority. Further research has indicated that there are indeed a *significant* number of equestrians in the area. Attached to this response is a map provided by a local rider showing the location of equestrian yards within the vicinity. One might reasonably assume a minimum number of 3 horses at the smallest yards and, potentially, 20 or more at the larger yards.

On the SSG Construction Traffic Routing and crossing plan (Figure A1) byway AE396 is shown as having **three** crossing points identified (we believe one, and certainly no more than two, should suffice). I understand that it is proposed that the public will be made aware of crossing traffic by lights and noise. This is not appropriate close to a public highway used primarily by walkers and horse riders. If these routes are to be crossed by construction traffic, the banksman in place should stop the construction traffic while the PROW user continues with their journey. Following construction, traversing of the byway by site traffic needs to be strictly controlled in such a way as to ensure the byway surface is not affected adversely and nor is user safety. The byway should not be surfaced with a sealed surface as this would invite increased use by even more vehicular traffic.

¹ DEFRA FoI April 2021

² BETA 2023



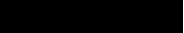
Further, Laws Lane appears to be similarly impacted. Laws Lane is currently a quiet country lane forming part of a hacking route popular with riders, often used in conjunction with Bank Road, byway AE396 and Frith Road to form a circular route. This will also be seriously impacted by crossing construction vehicles and displaced traffic from Aldington heading to the A20, further degrading the amenity of horse users .

The siting of battery storage appears to include locations adjacent to the byway. This produces a fire risk. Apart from the immediate health and safety risk, such fires are very difficult to control, produce high levels of toxins, so closure of all public access may be required. In addition, access routes may be severely damaged by operations to attend the fire.

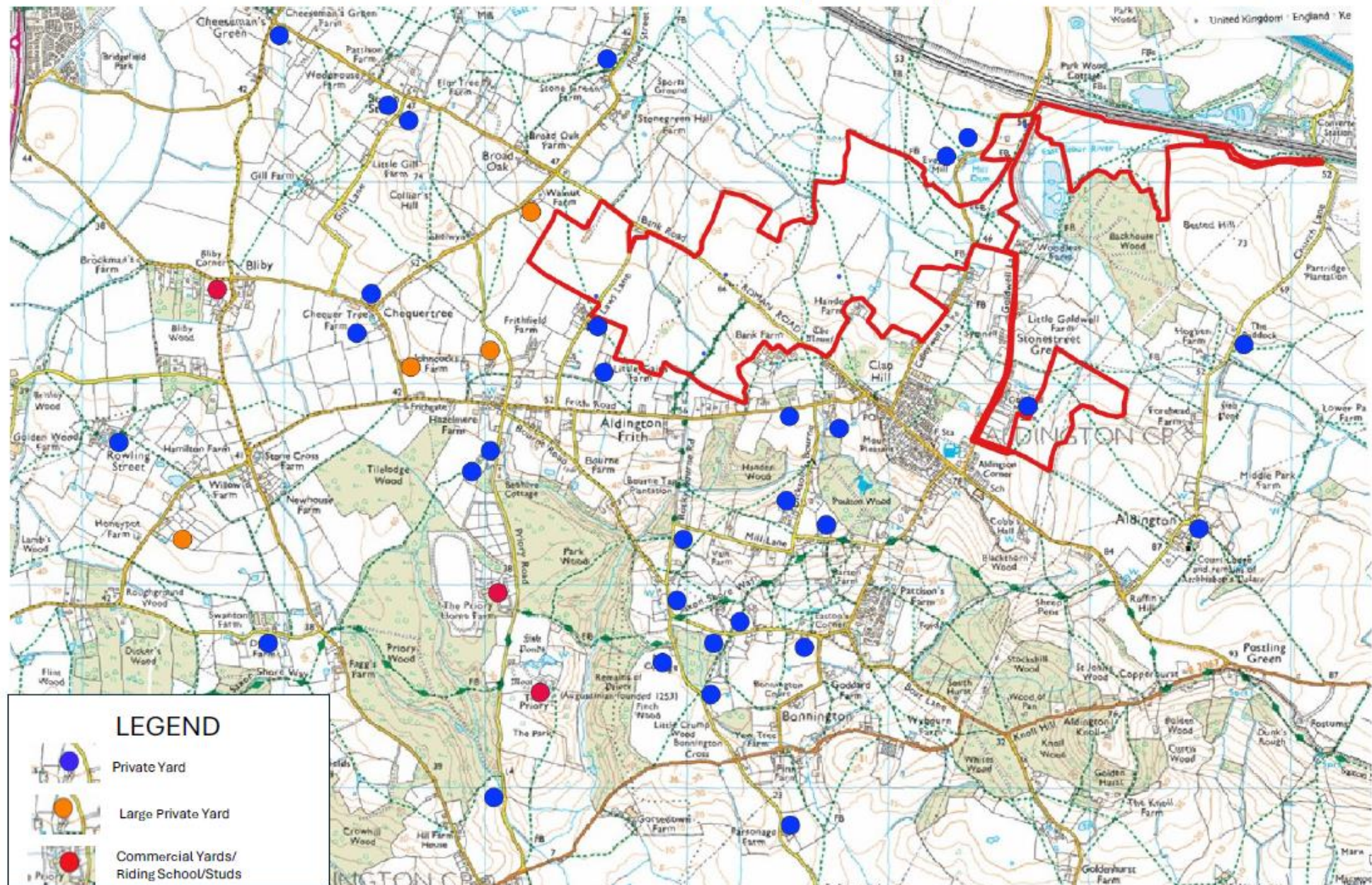
The BHS advice note in respect of solar farms is provided at the end of this letter and we would like to see these recommendations taken into account.

At the initial consultations, we expressed a willingness to work with the applicant to ensure the best outcome for equestrians and this willingness remains.

Yours sincerely


Access Field Officer (London & South East)
Email: @bhs.org.uk
Tel: 

Stonestreet Green Solar - Map of Equestrian Users



Advice on Solar farms near routes used by equestrians

The
British
Horse
Society

The law and management of public access rights vary widely between the four countries of the United Kingdom. Practical elements of the following advice apply in all countries but the legal requirements in Scotland and Northern Ireland may differ from those in England and Wales.

More advice is available on www.bhs.org.uk/accessadvice.

IMPORTANT This guidance is general and does not aim to cover every variation in circumstances. Where it is being relied upon, The Society recommends seeking advice specific to the site.

Contents

Principles of solar generation.....	1
Considerations for a solar farm development.....	3
Construction	4
Drainage	5
Fencing	5
Security	6
Alternative or additional access.....	6
Planning conditions.....	7
Battery storage	7

Where solar farms are proposed, the potential impact on horses should be considered on any route used by them — including byways, bridleways, roads and permissive routes — which may be affected, and on equestrian businesses where horses are kept or trained.

While sympathising with views of local people against change of a rural landscape to fields of solar panels, the Society is aware that retaining the view or the experience of a more natural environment is rarely a 'material planning consideration' with any weight to prevent such a development, therefore, the Society's work is most likely to focus on gaining equestrian access from the development, and mitigation of its effect on existing bridleways or byways.

Principles of solar generation

Electricity is generated from solar panels by daylight rather than direct sunlight and, with the improvement in solar panel technology, the intensity of the daylight in much of Britain

and Ireland is capable of producing levels of electricity for solar farms to be viable even on overcast winter days.

A solar farm involves the installation of solar photovoltaic panels on open land, usually that which is relatively even across the site, to avoid having to compensate for undulations, which would require greater spacing between ranks of panels. Flat land is more likely to be used than a hillside for ease of installation, maintenance and to reduce visual impact.

Standard photovoltaic panels are fixed on frames mounted on vertical supports. Their height above ground is usually up to 3m, but designs are changing in this rapidly progressing industry. They are designed to absorb rather than reflect light for efficiency (reflected light is wasted energy) and although the amount of reflection varies with the component materials and the angle, the incidence of glare or dazzle is very low compared with glass and will not be uniform throughout a period of sunlight, assuming that the panel is static. Any reflection is unlikely to be a direct problem to horses, riders or carriage-drivers because of the angles and distances involved. The panels will also be constructed to avoid over-heating, because this too would be wasted energy.

Ranks of linked panels, called arrays, are aligned for optimum exposure to sunlight by their orientation and angle to the sun. Small developments may track the sun and change angle to optimise solar gain but this is not cost-effective in large commercial developments so panels will normally be fixed facing south and tilted at approximately 45 degrees. The arrays will be spaced at two to three times their height to avoid shading at any time of year. The whole site is likely to be fenced for security and may also be hedged for screening if required by planning conditions.

The static panels do not make any noise or movement and require very little maintenance, other than cleaning and vegetation control.

Rain hitting the panels will make a gentle sound which may be lost in the general ambient noise in those conditions, although, obviously, the greater the extent of panels, the greater the cumulative effect of the noise may be.

There are no moving parts or machines except for inverters which produce a low humming sound and are housed in small buildings, which can be constructed to minimise transfer of sound.

Depending on the previous use of the land and its quality, it may become grassland that can be used to graze sheep or poultry to reduce the need for vegetation cutting. Some land is deliberately managed to increase biodiversity, and such sites can be very beneficial to nature as a result.

Solar farms are relatively straightforward to build involving erecting the frames which hold the panels, trenches for cabling and small buildings to house inverters. Tracks may be built to facilitate vehicle movements around the site during construction or for subsequent maintenance.

The frames to support the photovoltaic panels are piled into the ground and can be removed when the farm is decommissioned. The piling operation is generally the most intrusive part of the build project. As a steady and predictable sound, it is unpleasant, but is unlikely to be particularly distressing to horses, although provision of an alternative route when piling is close to an equestrian route may be needed.

In some circumstances, such as presence of archaeological interest, the frames may be mounted on concrete blocks on the surface, but the cost is likely to make the project unviable so is rare.

Trenches run between the arrays and carry cabling to an inverter building where the direct current produced by the panels is converted to alternating current and fed to the National Grid.

Considerations for a solar farm development

As part of the planning process, the developer will conduct a range of studies, typically to find out about the existing ecology and other aspects of the site. The effect on public rights of way should be included in these studies. The results and the design for the solar farm will make up the planning application so you can see at that stage whether the impact on rights of way has been accommodated.

The life of a solar farm is usually 25 years, often with an option to renew for a further period, although some planning permission will specify a return to original use without extension.

The construction phase of an average 40-acre site is likely to be around 16 weeks. Over this period there would be up to 100 lorry deliveries to the site. There will be some construction noise, but less than for many other types of developments. Components are not large so abnormal load vehicles should not be required.

Solar farms are usually secured by fencing which may include hedge screening. The most common type of fencing in use is open mesh 1.8 to 2m high, which is the least intrusive and this can be stipulated in the planning permission.

After construction, traffic to the solar farm will be minimal, with occasional maintenance visits and ground maintenance (mowing or grazing). If the site is currently farmed, usually it is maintained so that it can revert to agriculture after the life of the solar farm.

Planning authorities will normally require that a proposal will minimise disturbance to agricultural land and be mindful of visual impact on any brownfield or agricultural site. As even large solar farms are considered temporary, all the structures and any works (such as tracks) must be capable of removal or reversible.

Vehicular access to the arrays will be controlled to prevent criminal removal of panels. Security lighting and cameras are also likely to be installed; however, such measures usually use infrared to avoid visible light and light pollution.

Factors which could affect equestrians and should be considered during the planning phase are:

- Construction
- Drainage
- Fencing
- Security
- Additional access opportunities

Construction

Construction traffic will create many vehicle movements, relative to the size of the site, but is likely to be much greater on some days than others. A traffic effect plan should be produced during the planning application which should take into account the safety of users of rights of way both on and adjacent to the site and on roads used in the locality. Traffic can be restricted by planning conditions to normal working hours, avoiding the early mornings, evenings and weekends when equestrians are most likely to be out.

Bridleways, byways and unsurfaced roads **should not** be used for site access. If it is unavoidable, every effort should be made to ensure that the surface will be maintained and restored to a surface material suitable for horses after construction of the solar farm. An alternative route for equestrians should be provided during construction to minimise disruption and to ensure users' safety, which includes not forcing them to use roads as the only alternative.

Closures without alternative routes should be avoided and, if necessary, construction traffic managed to reduce the length of closures, rather than an automatic blanket closure throughout the period of construction.

Trenches for cables should not cross or be laid along rights of way. If it is unavoidable, authorisation will be required from the Highway Authority to disturb the surface of the right of way. Acting without authorisation is a criminal offence. The surface must be reinstated to a firm and safe condition within a set period, which should be as short as possible to minimise inconvenience to users. If the surface is not reinstated, the Authority can restore it and charge the cost to the landholder. The finish must be one that is suitable for horse use.

Damage to a good natural resilient surface is commonly a negative impact of a development because it may not be possible to reinstate the surface, and yet another grass track is lost. This can be avoided by careful planning, and using horizontal directional drilling to minimise damage rather than direct burial, which increases damage, even though the cost may be higher for drilling. Damage from vehicles engaged in the cable-laying can also be minimised by using temporary protective tracks on which the vehicles run, but which are removed to leave minimal impact on the surface.

When responding to a planning application for a solar farm, always consider the cable routing and its impact on bridleways and byways, it is often missed and the damage to surfaces can be very disadvantageous to equestrians, especially where not reinstated or where replaced by a sealed surface.

There will be noise during construction, particularly from pile driving, which is unpleasant, but its temporary nature means it is not usually a material planning consideration requiring control.

Drainage

Drainage provision for the radically changed surface of a solar farm compared with greenfield land must be taken into account to prevent potentially serious detrimental effects on equestrian routes on and immediately adjacent to the site and for some distance away, depending on drainage patterns, outflow and the terrain.

Hard surfaces create a very different drainage situation from an open field as run-off is immediate and much higher in volume. The extensive surface area of the panels could significantly change the nature of the drainage. Existing drainage may not be adequate to cope with the changed run-off and a holding pond may be required. New drainage to protect equestrian routes is essential to ensure they are not affected. This must be considered well beyond the site itself so that flash flood damage does not occur.

Equally, land which has a higher density of natural vegetation because not cultivated, heavily grazed or treated with pesticide may be able to absorb more water, therefore reducing speed and immediate volume of runoff from the site.

The effect of the construction process and vehicular access on drainage should also be considered. Levelling a site, soil stripping, trenching for cables, compaction and creating access tracks will all affect the drainage of the site and should be carefully provided for in the construction phase so that there is no adverse effect on equestrian routes.

Hard surfacing routes which currently have an adequate natural surface should not be the automatic answer; it is usually better to preserve the existing surface by attention to drainage. However, the existing surface and potential future use should be taken into account and the opportunity for upgrading the surface with a finish suitable for horse use should be taken if appropriate.

Fencing

Solar farms are valuable investments with material that is vulnerable to crime. They may be fenced to above head height for security. If bridleways or byways are alongside or through sites, care must be taken not to create a narrow corridor. Fencing can be intimidating, especially at this height, and create a need for vegetation control, or, if solid, create a drainage or poached surface problem by preventing light and air reaching the surface. A narrow corridor may also potentially create conflict from users being confined to a corridor, with no 'escape space' from a threat as would be the case with an open

field. The need to maintain adjacent hedges and surface vegetation so as not to further reduce the available width should also be considered, as well as vehicular access for maintenance if appropriate.

A minimum **useable** width of 4m between fences is required, which usually means fencing at no less than a 5m corridor, irrespective of any recorded width of the bridleway or byway, with vegetation cut through the full width. This mitigates the enclosed effect of the corridor of the right of way.

Where a bridleway or byway has been previously unfenced, it is likely that the used width has been at least 4m as users do not risk passing each other more closely than necessary, particularly on multi-use routes where horses, bicycles, pedestrians and dogs may be involved.

Use of open mesh fencing is preferable to close boarding or metal palisade-type fencing with sharp points on top. The latter two are much more intrusive in the landscape so should not be permitted in a rural location; they also create unpleasant and intimidating alleys, even if relatively wide, in any location. Metal palisade fencing with spikes on top should be avoided as its rigidity and sharp edges are dangerous and have safety implications for riders. While it may be above head height for a pedestrian, its top is likely to be at or below chest height for a rider and serious injury is likely should a rider be thrown onto or against such a fence.

Security

There may be a wish to restrict vehicle access to the site to minimise theft or vandalism. Anti-vehicle barriers cannot be authorised on bridleways or byways for the purpose of security, only to control livestock or to safeguard users of the right of way. The site must therefore only be permitted if it can be secured without affecting bridleways, byways or roads. On permissive paths, barriers should conform to BHS Advice on gaps, gates and vehicle barriers to ensure safety of users.

Alternative or additional access

Large developments are opportunities for increasing access, particularly those which contribute to community funds. There may be chance to upgrade a footpath to bridleway or to gain an additional route. Even very short links can have important effects by enabling greater or safer use of existing routes in an area.

It should not be necessary to divert a bridleway or restricted byway (a byway open to all traffic cannot be diverted under normal circumstances) as arrays can be arranged around the route. However, this could significantly reduce the number of panels that can be accommodated and there may be a proposal to divert a route to the edge of the site. In some cases, this may be acceptable if it provides a more advantageous route, but not if it is less convenient or attractive to users. Diversions should be avoided, unless the proposal is more desirable than the existing route as the solar farm is a temporary structure. If it is

essential to divert a convenient route, consideration should be given to it reverting to the original line on expiry of the planning permission for the solar farm.

Planning conditions

Where a solar farm is proposed, conditions can be imposed on planning permission to ensure the points above are included. The primary ones are:

- Routes for construction traffic should avoid passing along or across equestrian routes, including byways and bridleways. Where such use is unavoidable, provision of safe alternatives for the duration of the development, or protection of the equestrian access, should be in place.
- Existing bridleways, byways or other highways across the land should be provided for at no less than 5m width between fences.
- Inverter housing should be constructed to avoid sound transmission and sited away from bridleways and byways to ensure operational noise and maintenance is at a distance.
- Additional opportunities for equestrian access should be considered.

Battery storage

Some solar farms may be associated with battery storage as well as feeding into the National Grid. Siting of batteries should be considered carefully in relation to bridleways and byways because of the fire risk. Apart from the immediate health and safety risk, such fires are very difficult to control, produce high levels of toxins, so closure of all public access may be required. In addition, access routes may be severely damaged by operations to attend the fire.

If this is a saved or printed copy, please check bhs.org.uk/accessadvice for the latest version (date top of page 2).