

# Supplementary Statement on All Saints Church

Pegasus Planning Group Limited

Nuneham Solar

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## GLINT AND GLARE EFFECTS ON ALL SAINTS CHURCH

### Overview

All Saints Church is a Grade II\* Listed property located within the Grade I Registered Park and Garden of Nuneham. It is located approximately 1.1km south of the proposed development. Its location is shown in the figure below, relative to the proposed solar panel area (blue polygon), and the 1-kilometre assessment area for ground-based receptors (green polygon).



*Location of All Saints Church relative to the proposed development, and the 1km assessment area*

The following is true:

- All Saints Church is located outside of the typical 1km assessment area used by Pager Power for ground-based receptors (roads and dwellings). There is no formal guidance with regard to the maximum distance at which glint and glare should be assessed. From a technical perspective, there is no maximum distance for potential reflections. The significance of a reflection however decreases with distance because the proportion of an observer's field of vision that is taken up by the reflecting area diminishes as the separation distance increases. Terrain and shielding by vegetation are also more likely to obstruct an observer's view at longer distances. The above parameters and industry experience over a significant number of glint and glare assessments undertaken, shows that a 1km assessment area from the proposed development is considered appropriate for glint and glare effects on road users and dwellings;
- Reflections are not geometrically possible towards dwelling receptors 7-12, which are located between 0.5km-0.9km south of the proposed development, and at a similar

altitude to the All Saints Church. It is concluded that reflections are also unlikely to be geometrically possible towards observers on the ground floor of the church;

- The sensitivity of the receptor (in terms of amenity and safety) is concluded to be of low significance;
- Any observable solar reflection would be of similar intensity to those experienced whilst navigating the natural and built environment on a regular basis (e.g. bodies of water), and less intense than reflections from glass and other common outdoor surfaces.

It is concluded that significant impacts to observers at All Saints Church would not be possible due to potential glint and glare effects from the proposed development.

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