

# Shadow Impact Assessment

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Land Adjacent to 52 Ingham Road

Dewsbury

WF12 0AQ

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Erection of 1 Detached Dwelling

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March 2023

Mubeen Patel

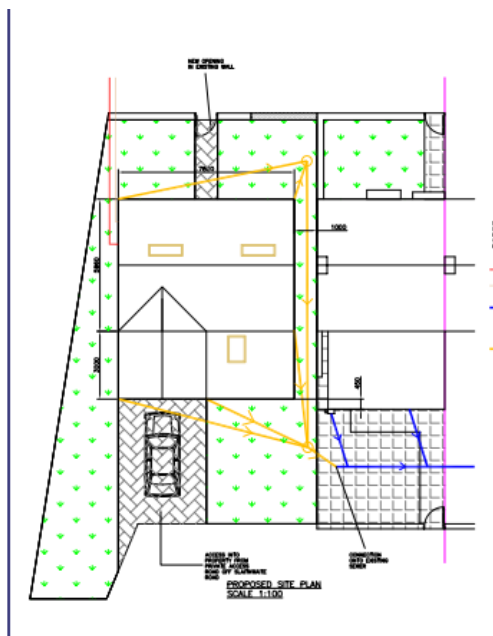


This Shadow Impact Assessment has been submitted on behalf of the applicants after concerns were raised by the Councils Parks and Open Spaces Department in relation to the impact of any potential shadow from the proposed dwelling onto the allotments positioned to the south of the site.

The Assessment takes into consideration the sun path of both the longest day of the year, and the shortest day of the year. An object level (height of dwelling) of 7m has been considered. It should be noted that the allotments are to the south, with the proposed dwelling located to the north of the allotments, whilst the sun rises in the east and sets to the west.

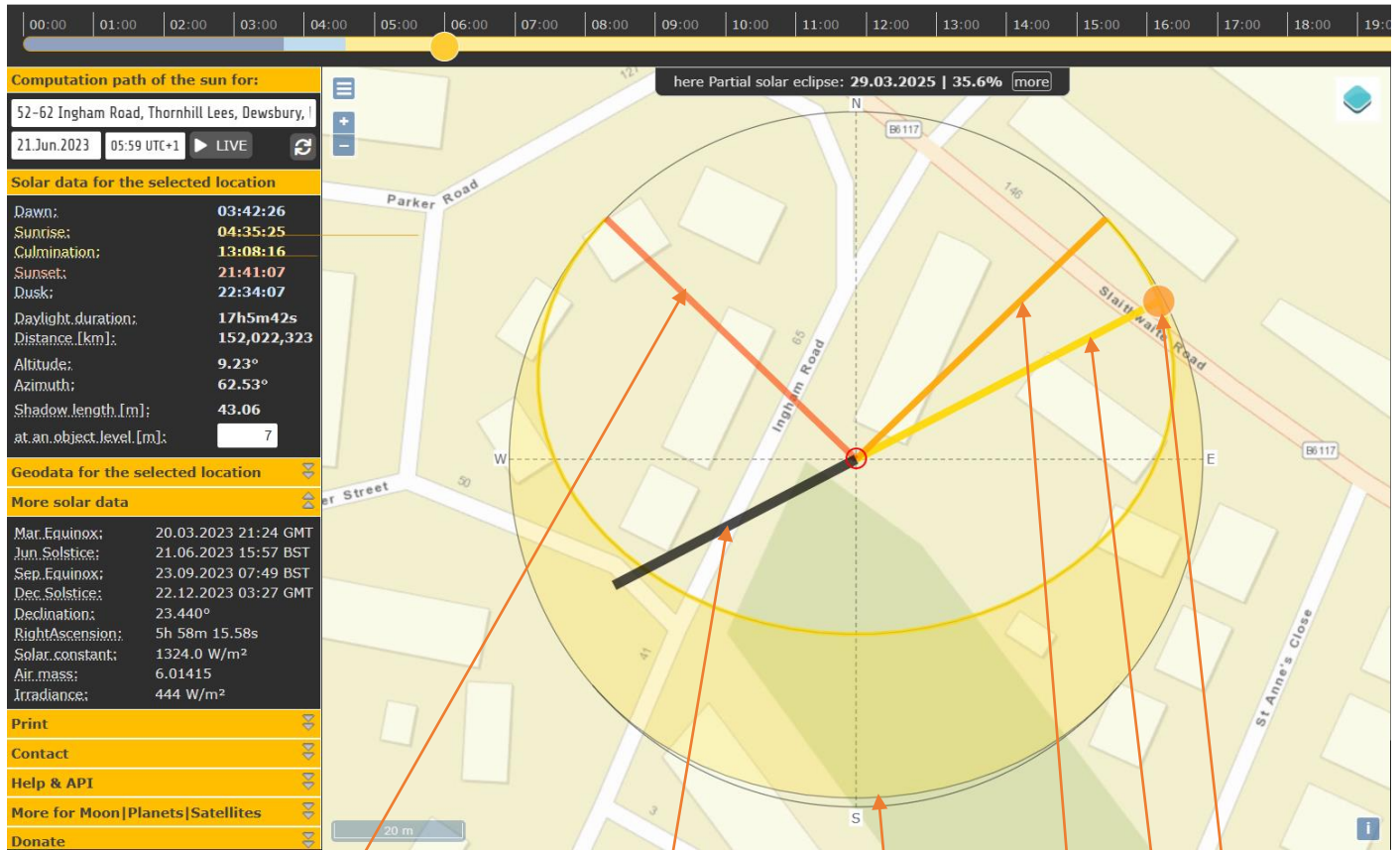


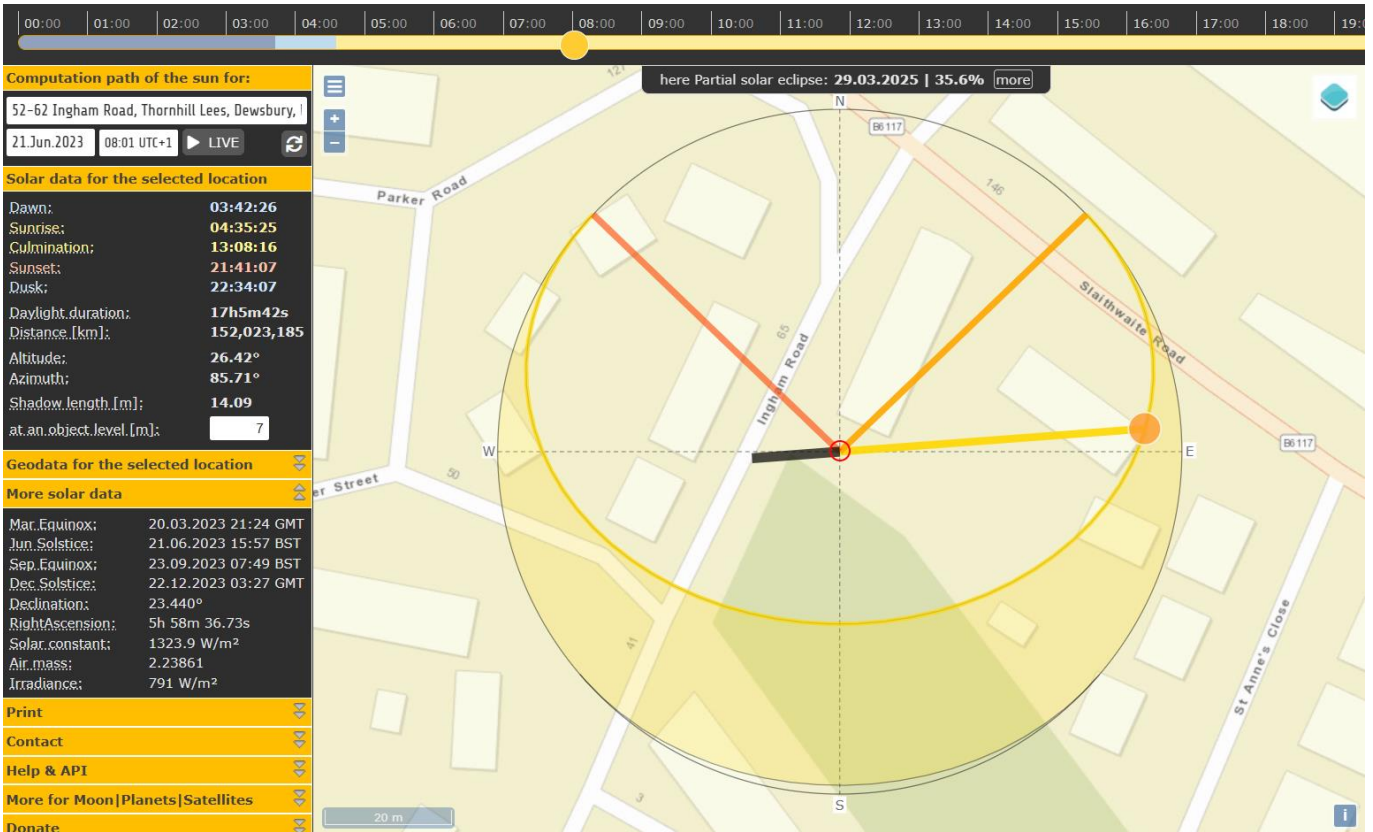
The above aerial image indicates the site in question where the proposed dwelling is to be erected. To the south are the allotment gardens considered as part of this assessment.



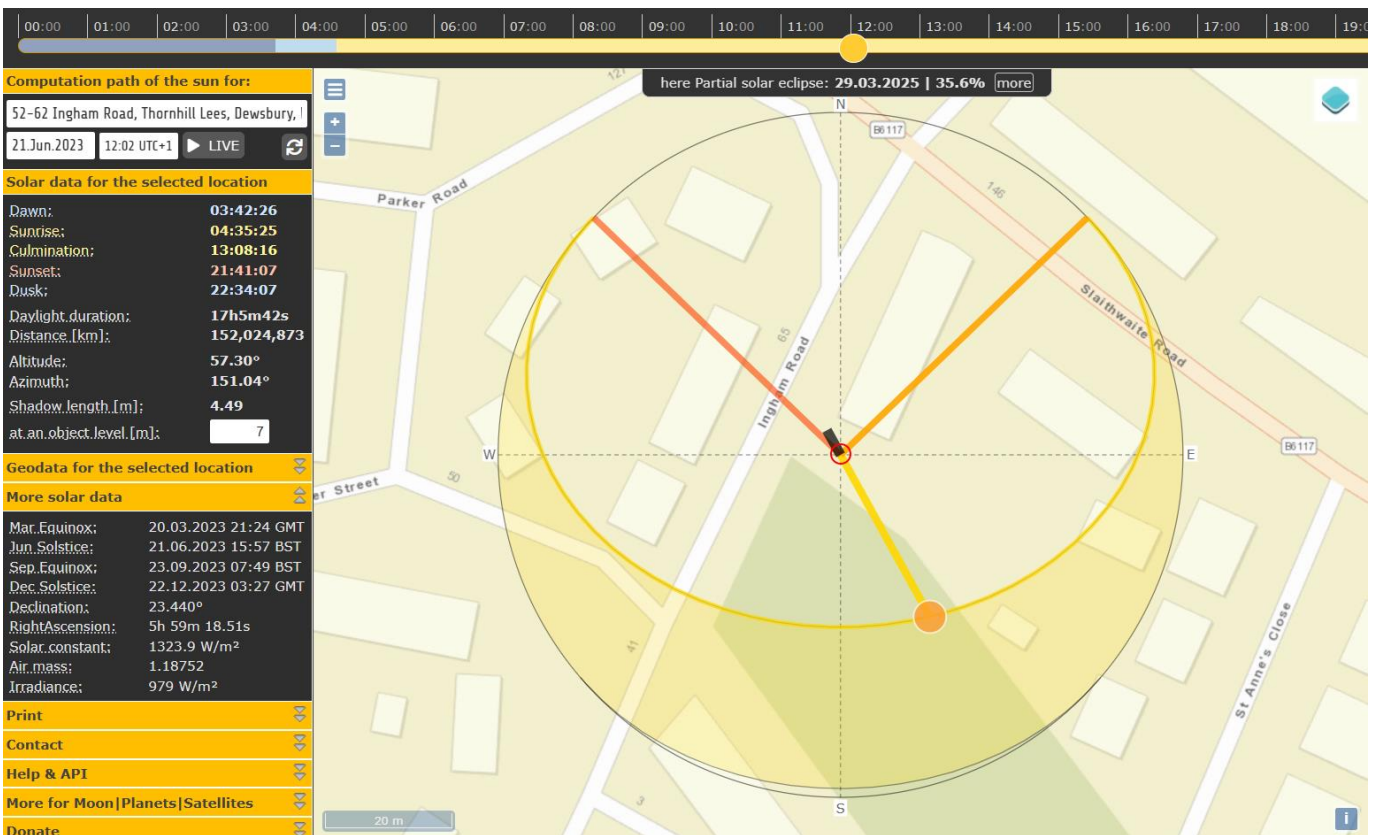
(Left) The site plan shows the positioning of the proposed dwelling within the plot and its relationship with the adjacent dwelling at 52 Ingham Road.

**Shadow Impact – Longest day 21 June**

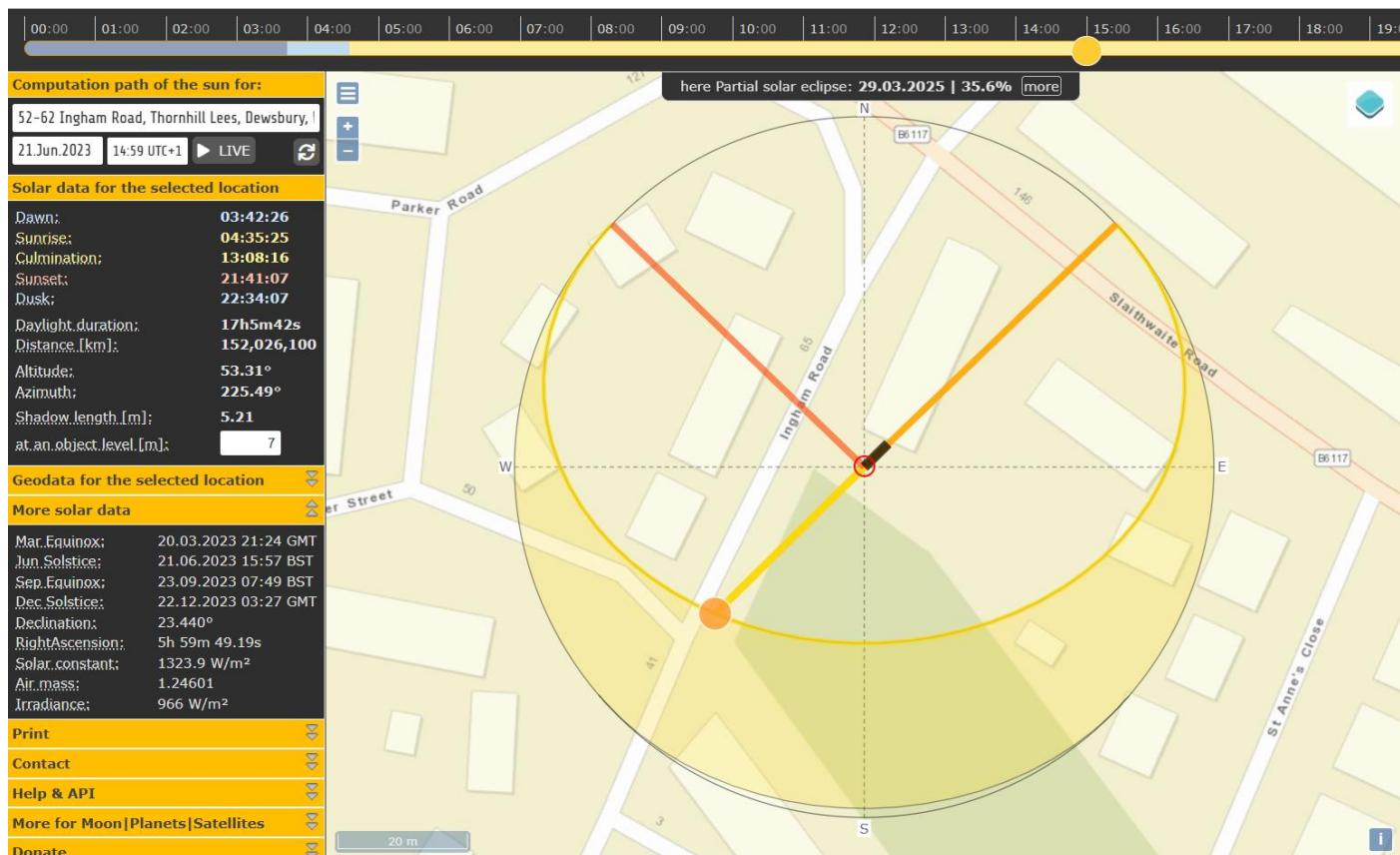




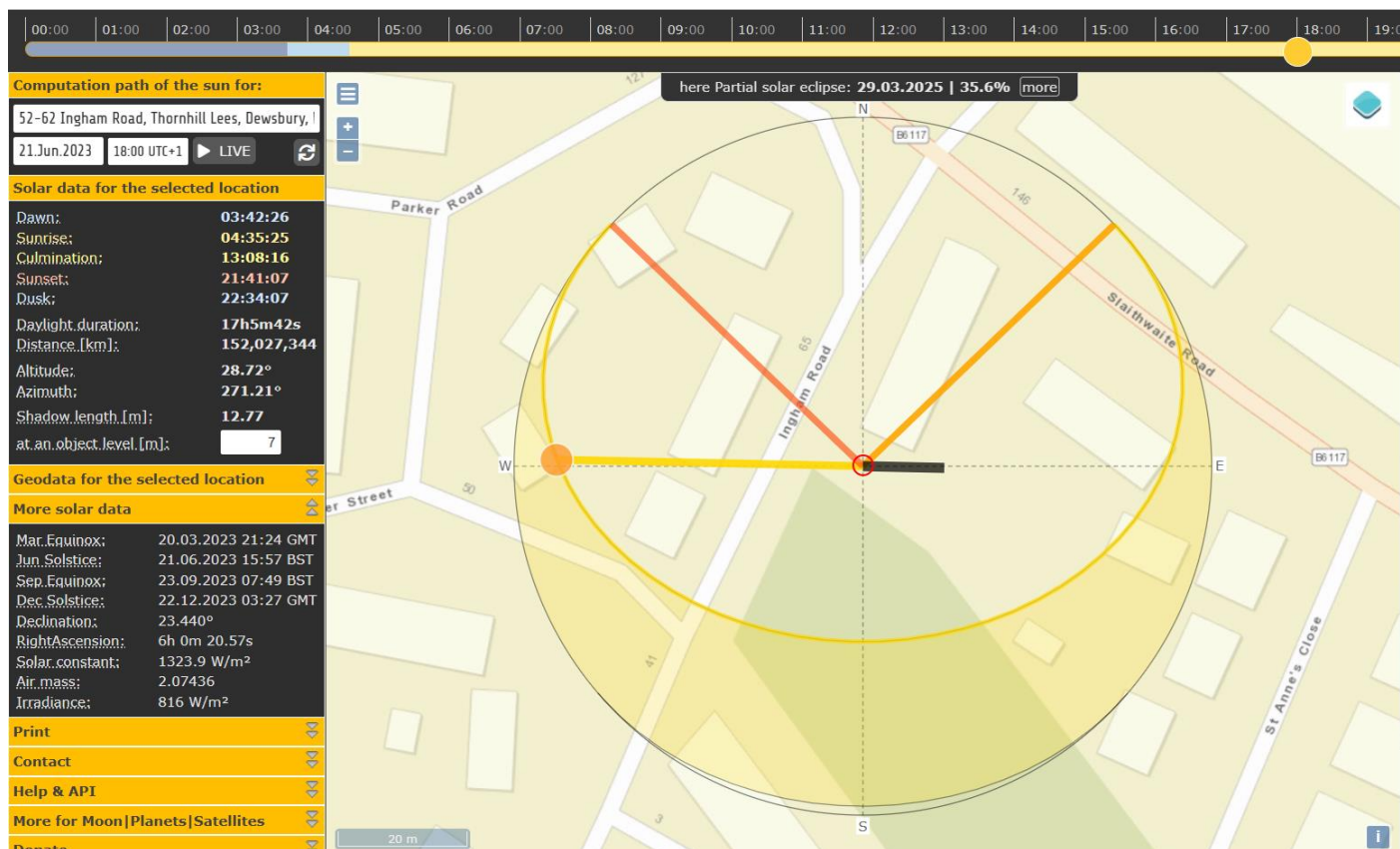
08.00hrs



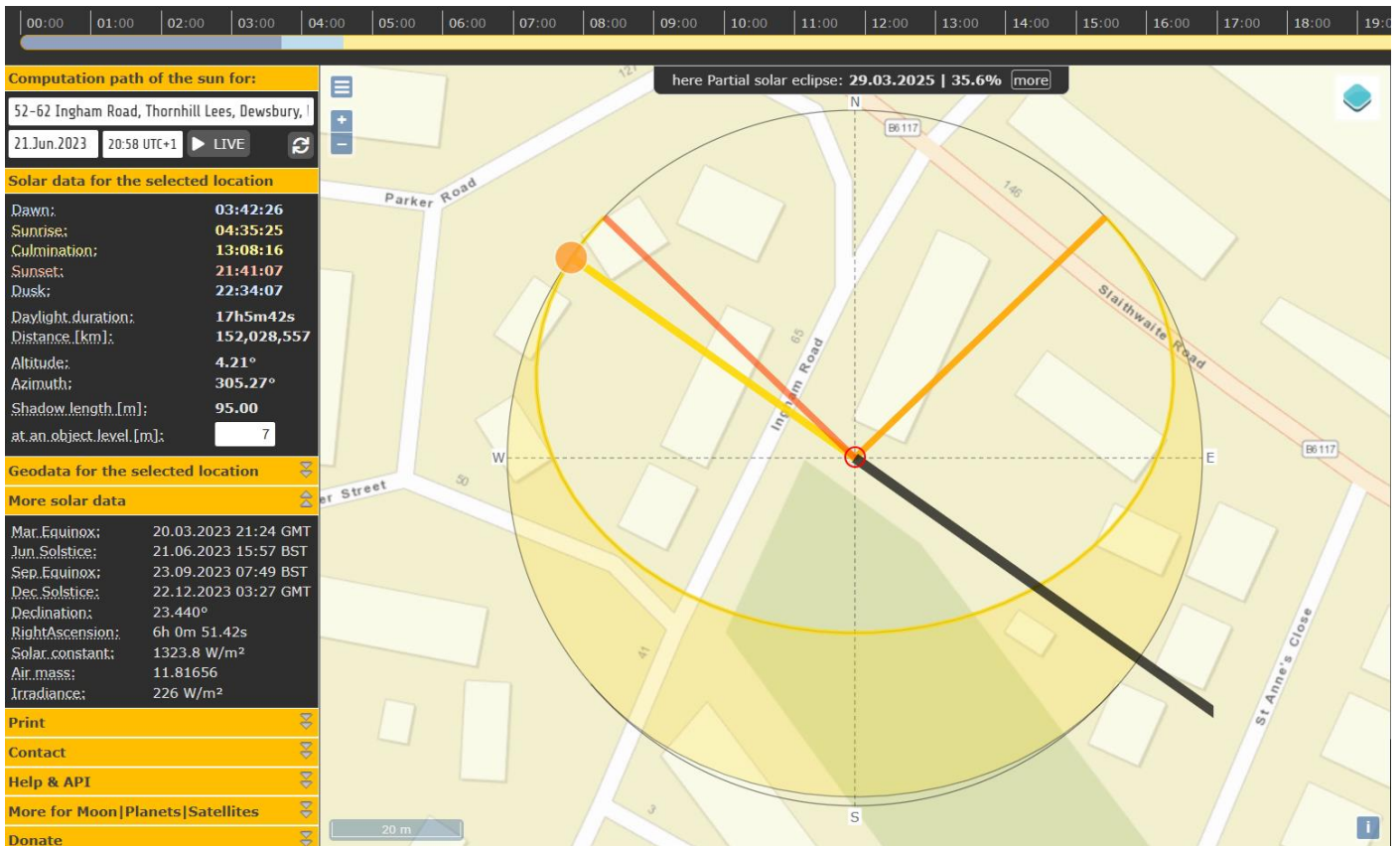
12.00hrs



15.00hrs

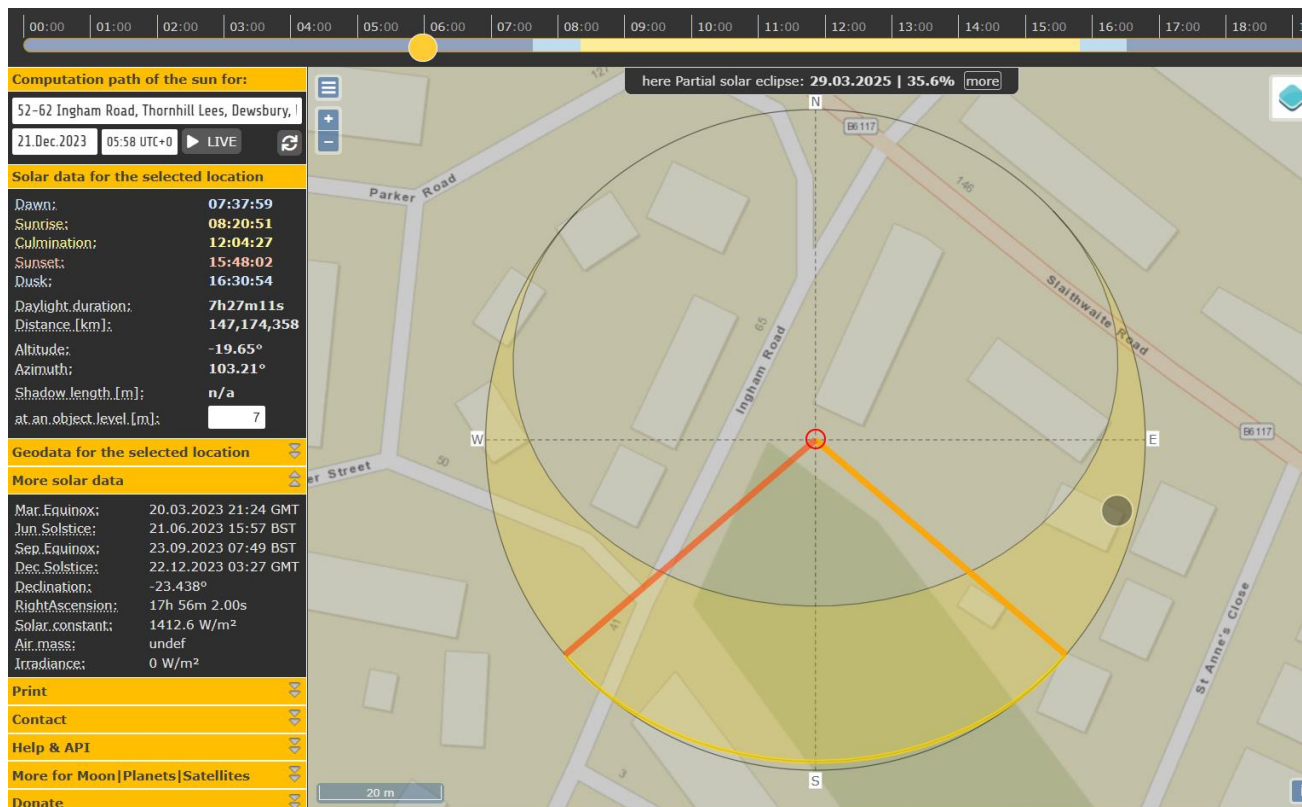


18.00hrs

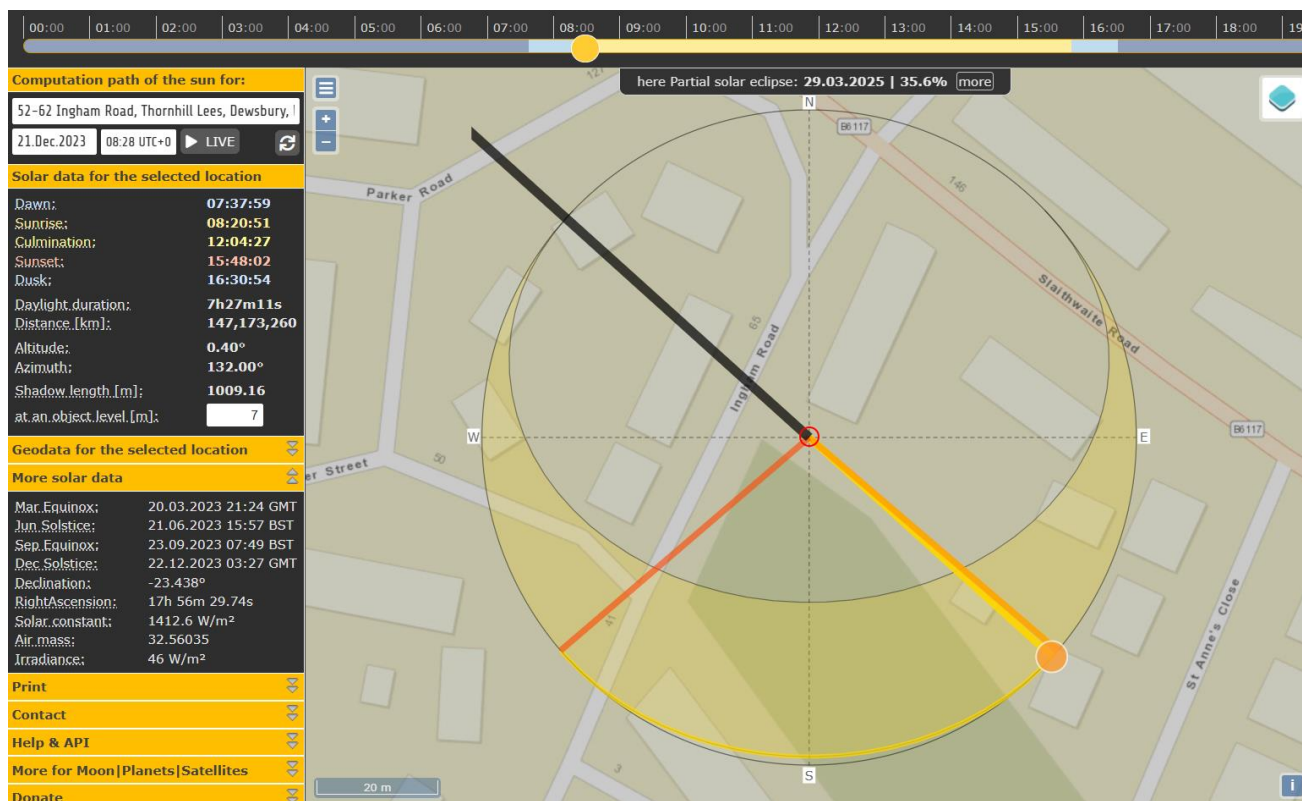


21:00hrs

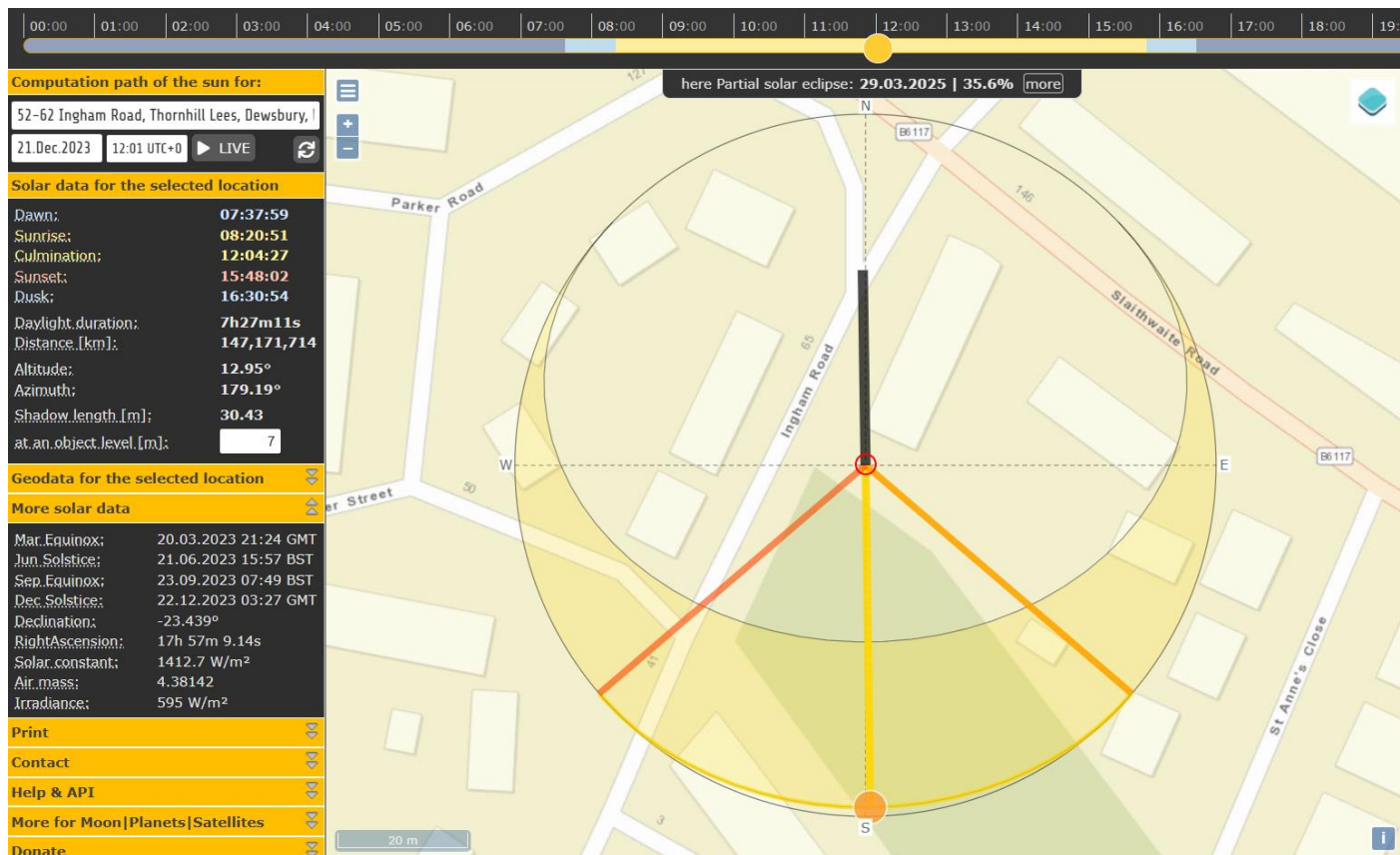
**Shadow Impact – Shortest day 21 December**



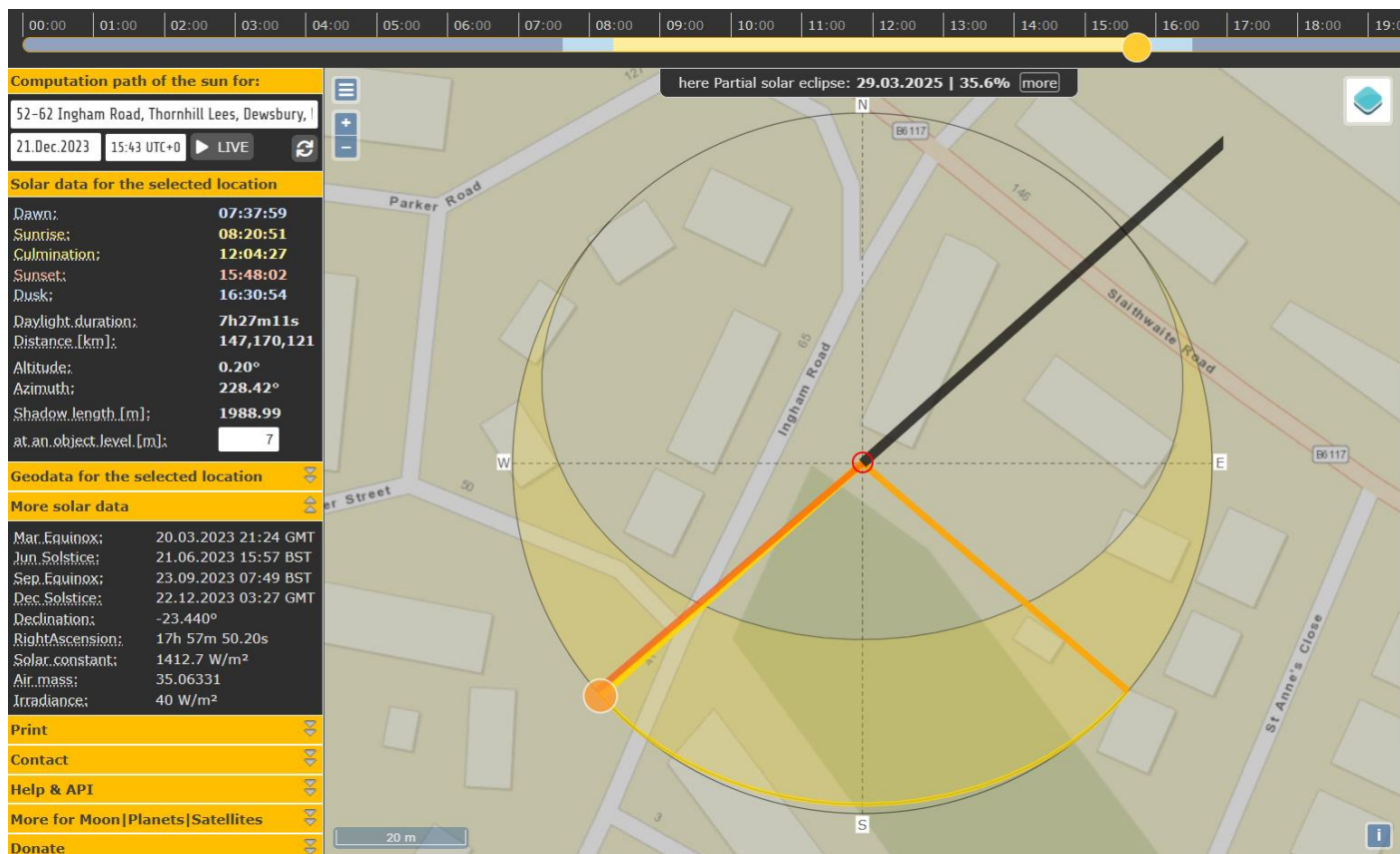
**06.00hrs – Night time**



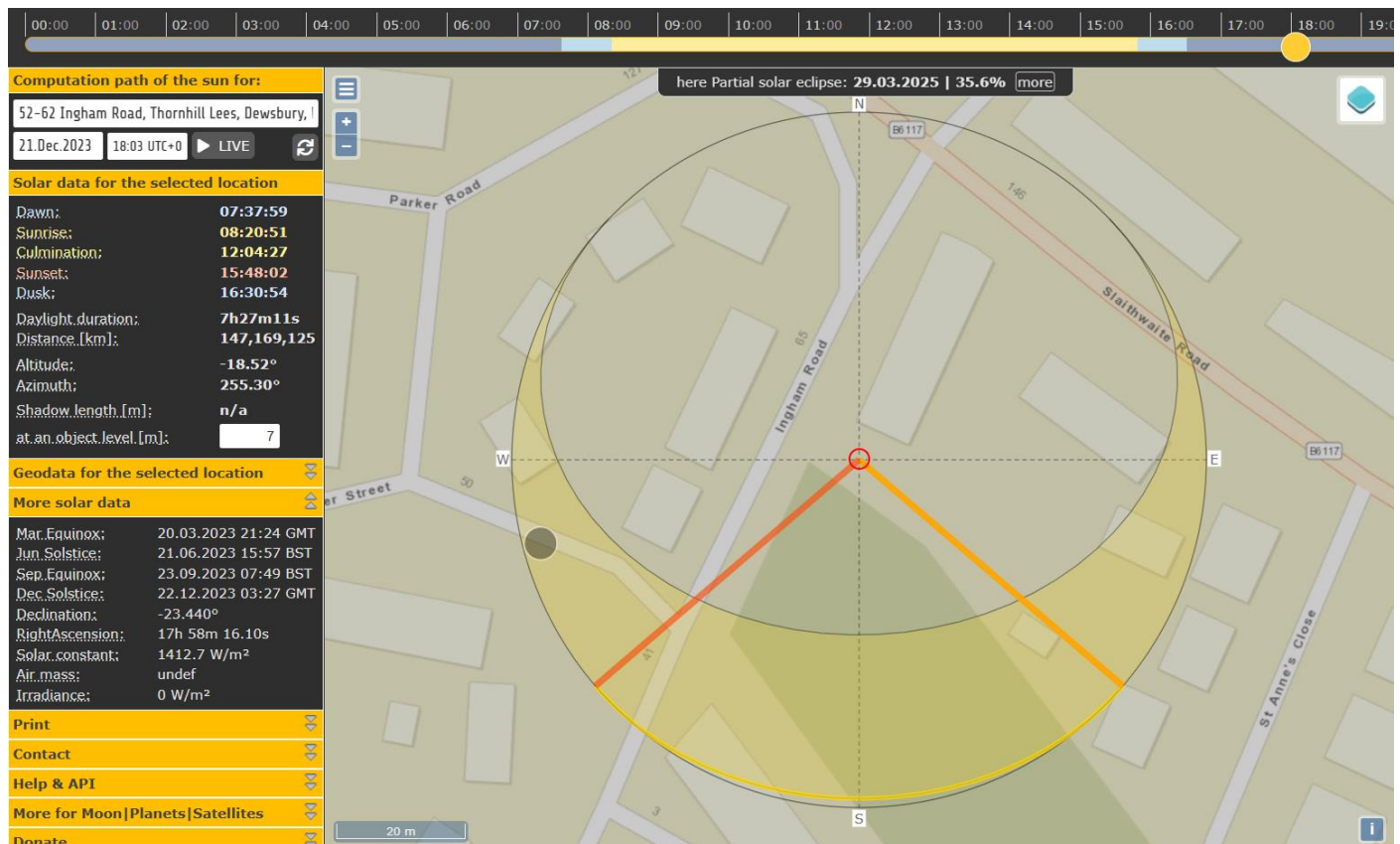
**08.30hrs - Sunrise**



12.00hrs



15.45hrs Sunset



**18.00hrs - Night time**

**Summary**

The above assessment has taken into consideration the sun path of the two most extreme times of the year in order to provide a clear justification of the impact of the proposed development. The sun path includes when the sun would be at it highest and lowest points from the earth.

The assessment shows that there would be some impact of shadowing during the summer months at sunrise only from the proposed dwelling, and that this would be a very small portion of the allotments, the northern corner of the site. However, it should also be acknowledged that the sun would be at a lower level at that time and therefore shadowing would already be caused by existing surrounding dwellings given shadow lengths. Nevertheless, the impact would only be for a short period of time during the morning and only for about 1 month of each year.

Taking the above into account, it is considered that the proposed dwelling would have a negligible to no impact on the purpose of the allotments by way of shadowing. The assessment has clearly demonstrated that a dwelling can be erected on site without any detrimental harm to the function of the allotments.