

## Heiton Steel Solar PV Installation- Glint and Glare Assessment

Prepared by KRA Renewables



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## Summary of Findings

KRA Renewables have assessed the proposed installation of a rooftop solar PV array at Heiton Steel, Ashfield, Dublin, Ireland, for its potential impact on air operations on the Dublin Airport ATCT (Air Traffic Control Tower), Casement Aerodrome, Baldonnel (OP2) and Weston Airport Lucan (OP3).

Airport	Approximate distance from the source (Heiton Steel)
Dublin Airport (ATCT)	14.7kms
Casement Aerodrome	4.3kms
Weston Airport	8.87kms

The Solar Glare Hazard Analysis Tool (SGHAT), provided by Forge Solar, was utilised to calculate the theoretical potential for glint and glare issues relating to the flight paths and air traffic control tower at airports located within 15kms of the source, i.e. Heiton Steel. The analysis (Appendix A) showed no impact on flight paths and the Air Traffic Control Tower (ATCT).

Therefore, it was determined that a solar PV installation on Heiton Steel would not have a negative impact on aviation operations at airports within the 15km radius.

## Assessment Team & Relevant Qualifications

This assessment was undertaken by Finnbar Howell and Shikhar Manocha, both of KRA Renewables.

Finnbar Howell is the Technical Director of KRA Renewables. He holds a Masters degree in Renewable Energy from the Hanze University of Applied Sciences and a bachelor's degree in Physics from UCD. Finnbar is a member of Engineers Ireland and has experience with a variety of solar energy installations across the Republic of Ireland.

Shikhar Manocha is a Renewable Energy Engineer with KRA Renewables. He holds a MSc in Sustainable Energy and Green Technologies from UCD, where he specialised in solar PV, and a bachelor's degree in Electrical Engineering from Guru Gobind Singh Indraprastha University. Shikhar has received training from Forge Solar on the correct and appropriate use of their SGHAT tool and has prior experience in conducting G&G assessments.

## Appendix A- Forge Solar SGHAT Report



ForgeSolar-aviation-report-Heiton Steel.pdf