



Rayleigh Solar Farm Public Consultation Webinar

Presented on Tuesday 14th September 6pm

Introduction to Aura Power

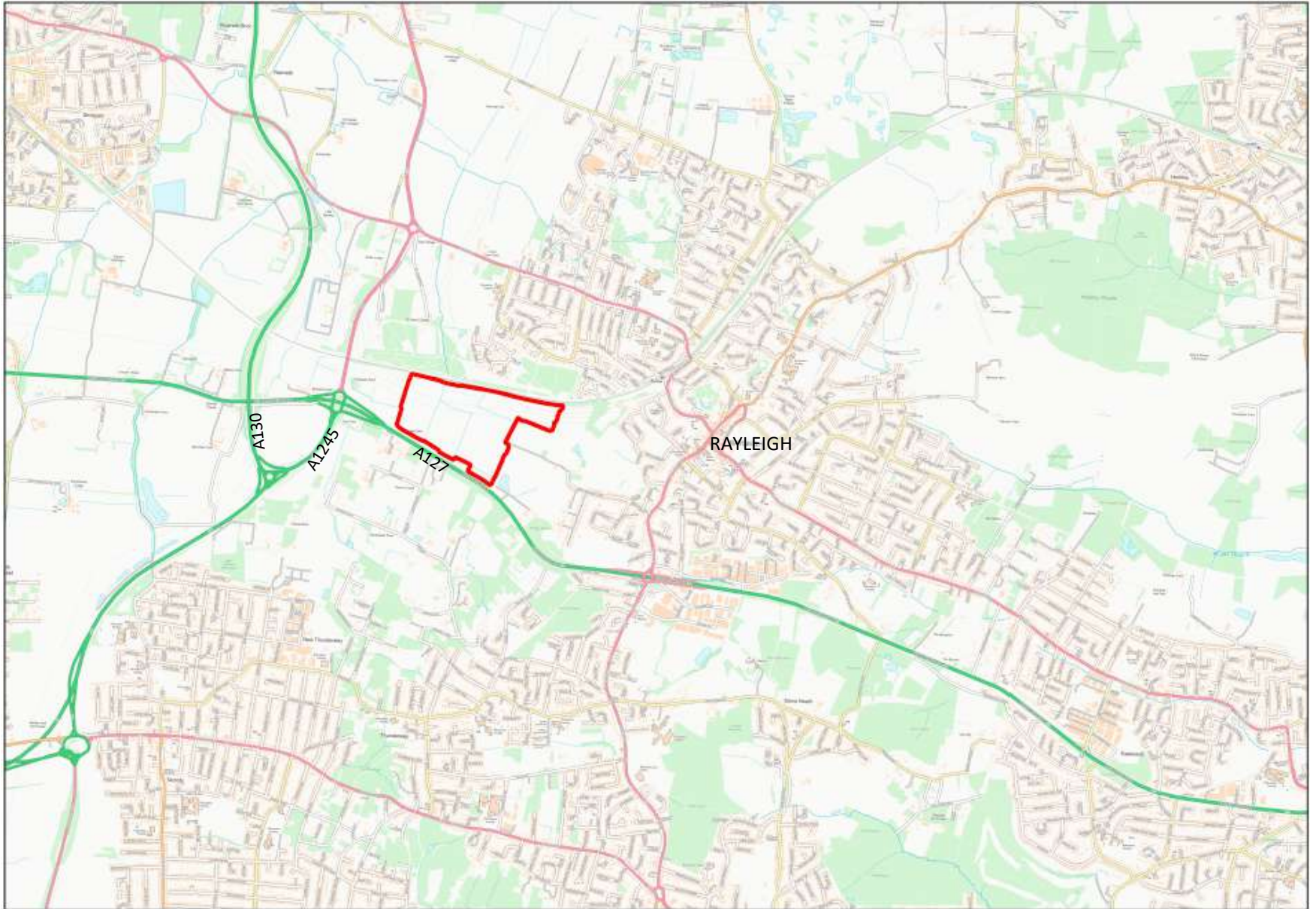
- Bristol based - Founded in 2013
- Numerous utility-scale solar farms and battery storage projects in development
- UK, Republic of Ireland, Italy, Portugal, Spain, Canada and US
- Partner with ib Vogt– an engineering company with over a gigawatt of solar farms



Why Solar?

- Climate and Ecological Emergency!
- Net Zero by 2050
- Lowest cost of electricity
- Subsidy free
- Up to 30 MW capacity =
 - **Over 9,000** homes powered annually with electricity
 - **10,000** tonnes of CO₂ saved annually





Why this site?

- Between railway and busy A road
- Good existing screening with an ability to screen further through tree and hedgerow planting
- Onsite powerlines
- Next to Rayleigh's electricity substation where we have a grid connection
- Opportunity to boost biodiversity
- Close to the town which can benefit from clean renewable energy
- Excellent levels of solar irradiation in this part of the country
- Good access off the A127



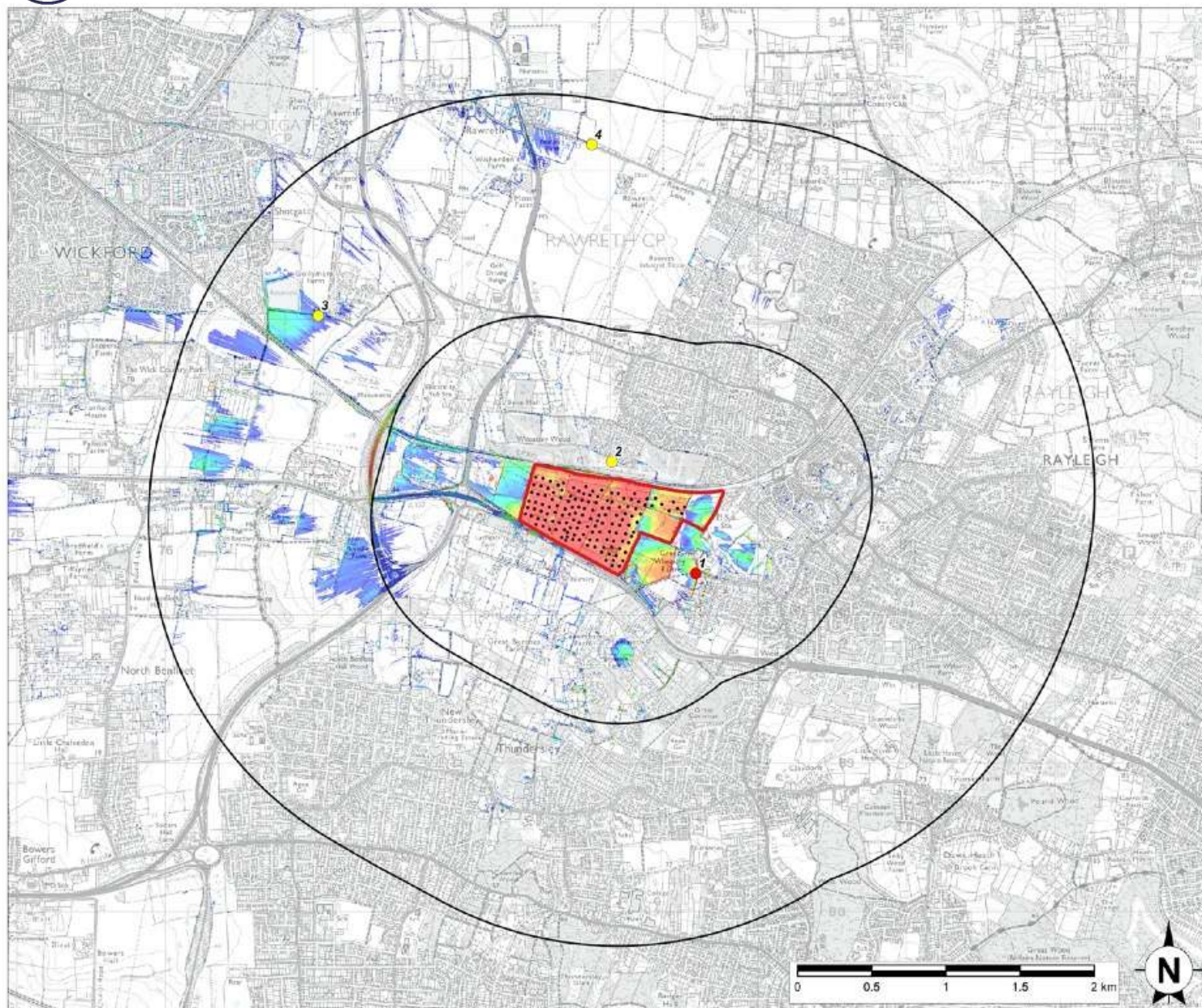
What makes up a solar farm?

- Photo Voltaic (PV) arrays
- Security Fencing
- New Access Tracks
- Transformers
- Inverters
- Underground cable and connection into electricity grid
- Storage Units
- Temporary construction compounds
- Substation
- CCTV (infrared)



Indicative Site Layout





axis

Key

- Site Boundary
- Distance from Site boundary at 1km and 2.5km intervals
- Photomontage Location (Viewpoint 1)
- Other Viewpoint Locations

ZTV of Proposed Solar Panels

- Approx 1%-17% of development visible
- Approx 18%-34% of development visible
- Approx 35%-51% of development visible
- Approx 52%-68% of development visible
- Approx 69%-85% of development visible
- Approx 86%-100% of development visible

VIEWPOINTS

- 1: Public footpath, near Great Wheatley Farm
- 2: Wheatley Wood
- 3: Public bridleway, Doublegate Lane
- 4: Rawreth Lane

NOTES

1. Zone of Theoretical Visibility (ZTV) has been generated using BlueSky Mapping 2m photogrammetry Digital Surface Model (DSM) data, which reflects the presence of vegetation, buildings and other structures.
2. ZTV generation has allowed for the curvature of the earth, and for light refraction.
3. ZTV has been generated based upon an observer eye height of 1.7m above ground level.

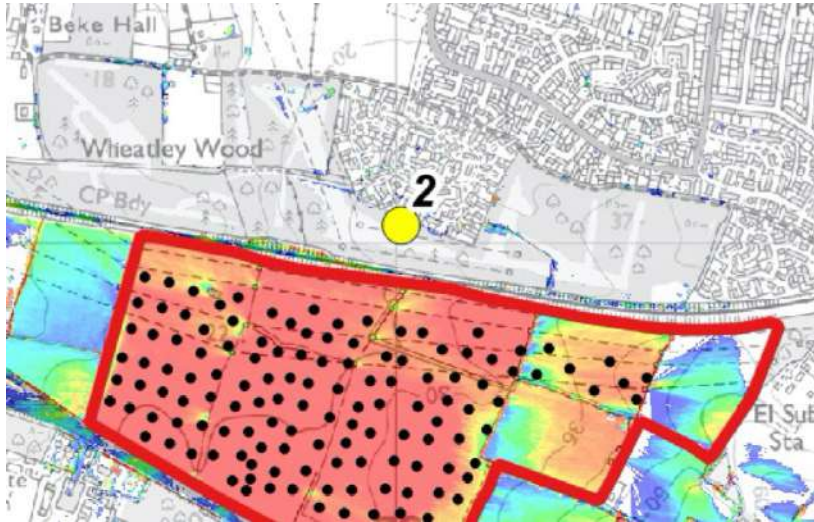
RAYLEIGH SOLAR FARM

ZTV and Viewpoint Locations

Scale
1:25,000@A3

Date
September 2021

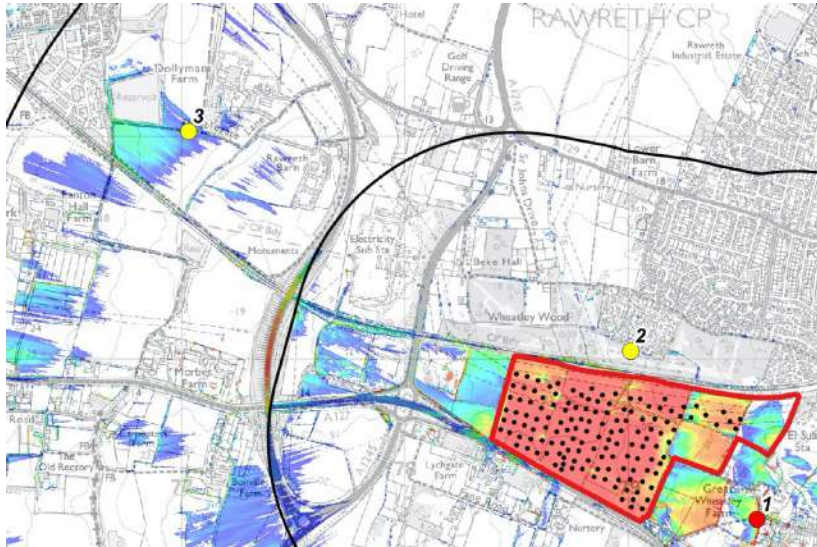
North of proposed site and railway near Langham Drive, approx.
190m from edge of panels



- Screened entirely by existing vegetation either side of railway line



Northwest of site at Wickford, Doublegate Lane, approx. 1.7km from nearest panel



- Existing vegetation and topography offer good screening

