Glanmire Solar Farm

Visual Impact Assessment

- Introduce our team
- Requirements for Visual assessment (SEARs)
- Assessment approach for visual assessment
- Assessment approach for glare assessment
- Approach to avoiding, mitigating and/or managing potential impacts.

Glanmire Solar Farm

Visual Impact Assessment

Planning Secretary's Environmental Assessment Requirements

Visual *– including:*

- *A detailed assessment of the impact of the project on the scenic quality and landscape character of Bathurst Regional City, including on any approaches to the city taking into consideration any values identified by the community and Council;*
- *A detailed assessment of the likely visual impacts (including any glare, reflectivity and night lighting) of all components of the project (including arrays, transmission lines, substations and any other ancillary infrastructure) on surrounding residences and key locations, scenic or significant vistas, air traffic and road corridors in the public domain; and*
- *Details of measures to avoid, mitigate and/or manage potential impacts.*

Glanmire Solar Farm

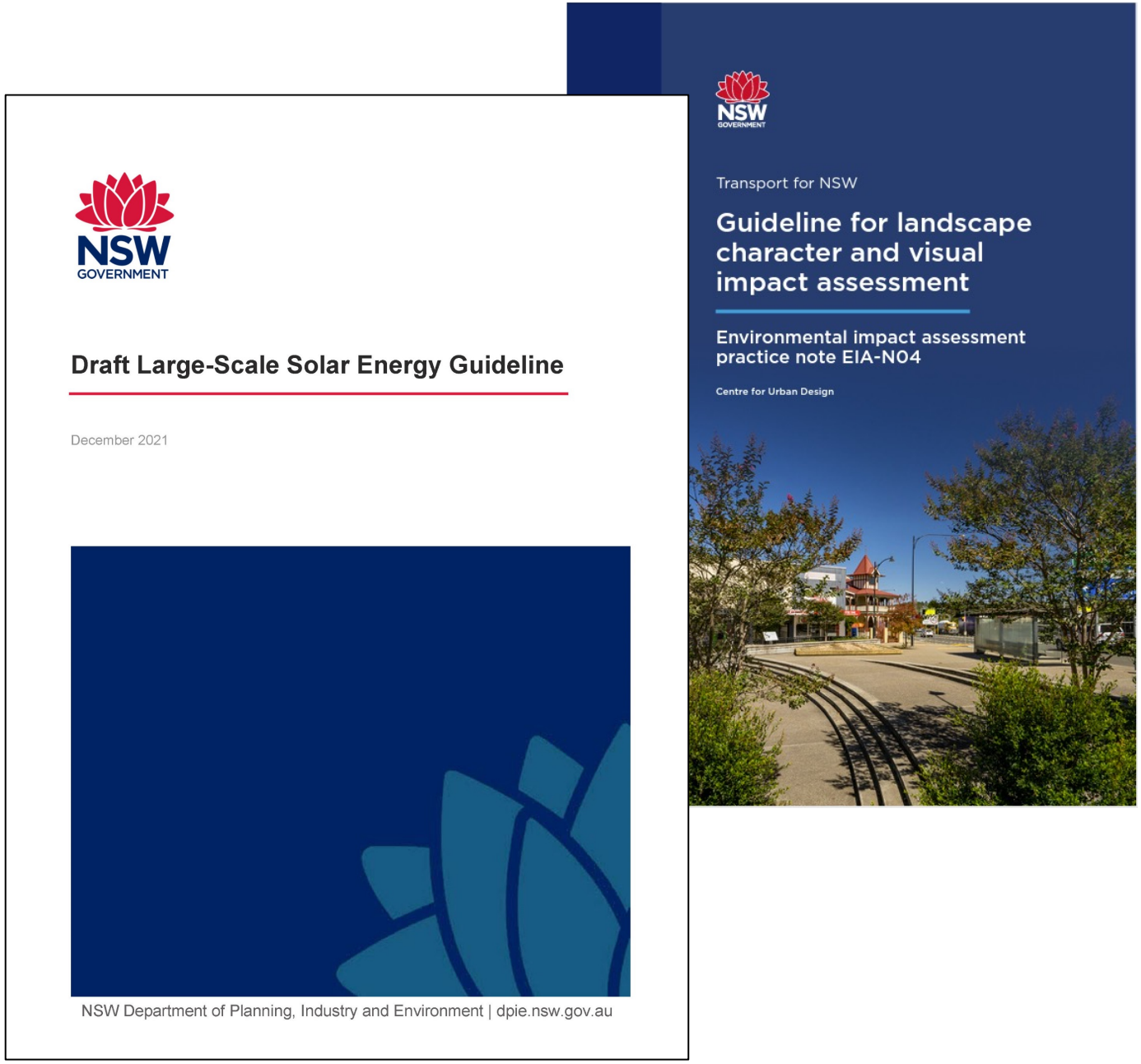
Visual Impact Assessment

Assessment approach

Guideline for landscape character and visual impact assessment

Draft Large-Scale Solar Energy Guideline

- Visual amenity impacts
- Glint and Glare management



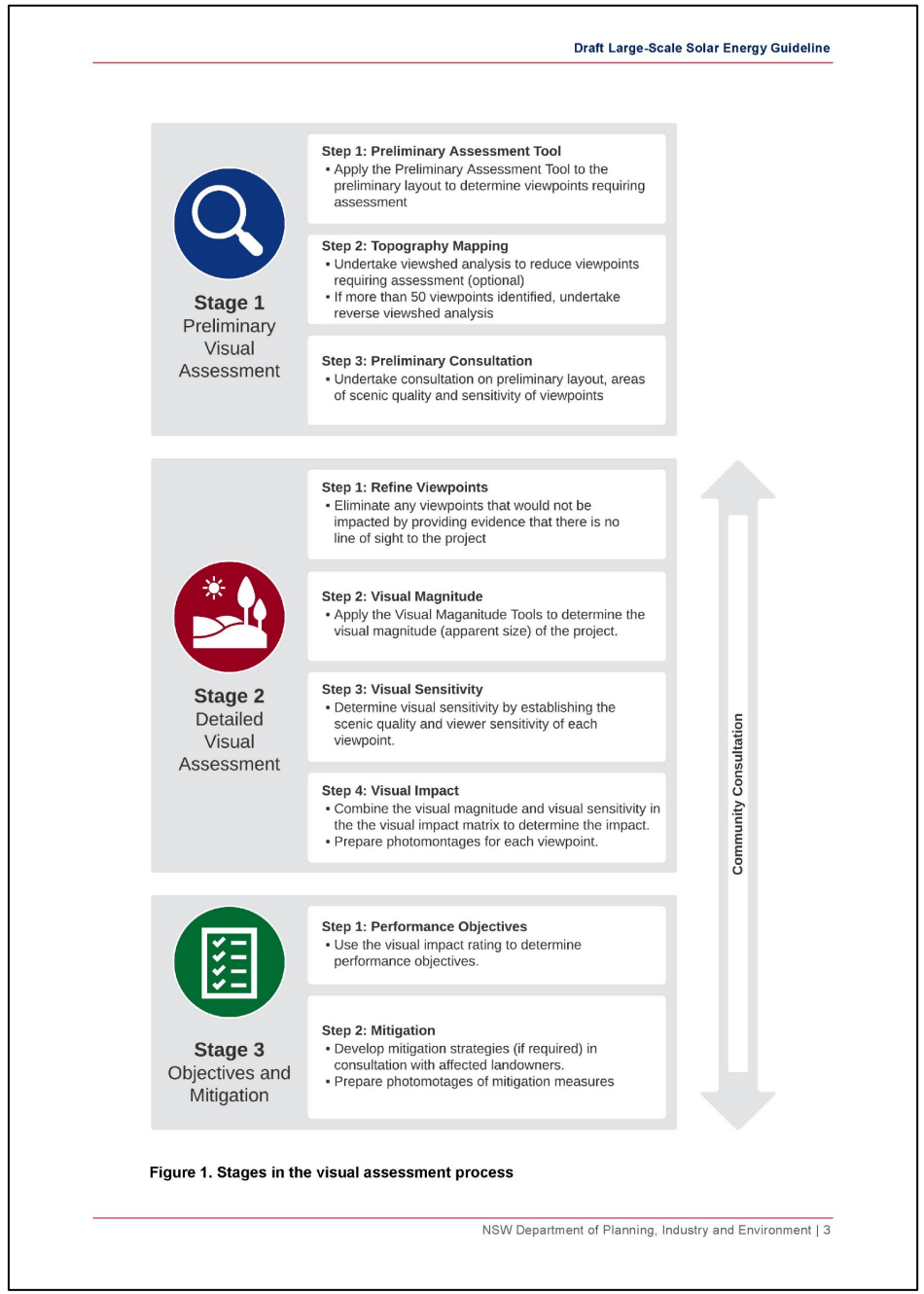
Glanmire Solar Farm

Visual Impact Assessment

Draft Large-Scale Solar Energy Guideline

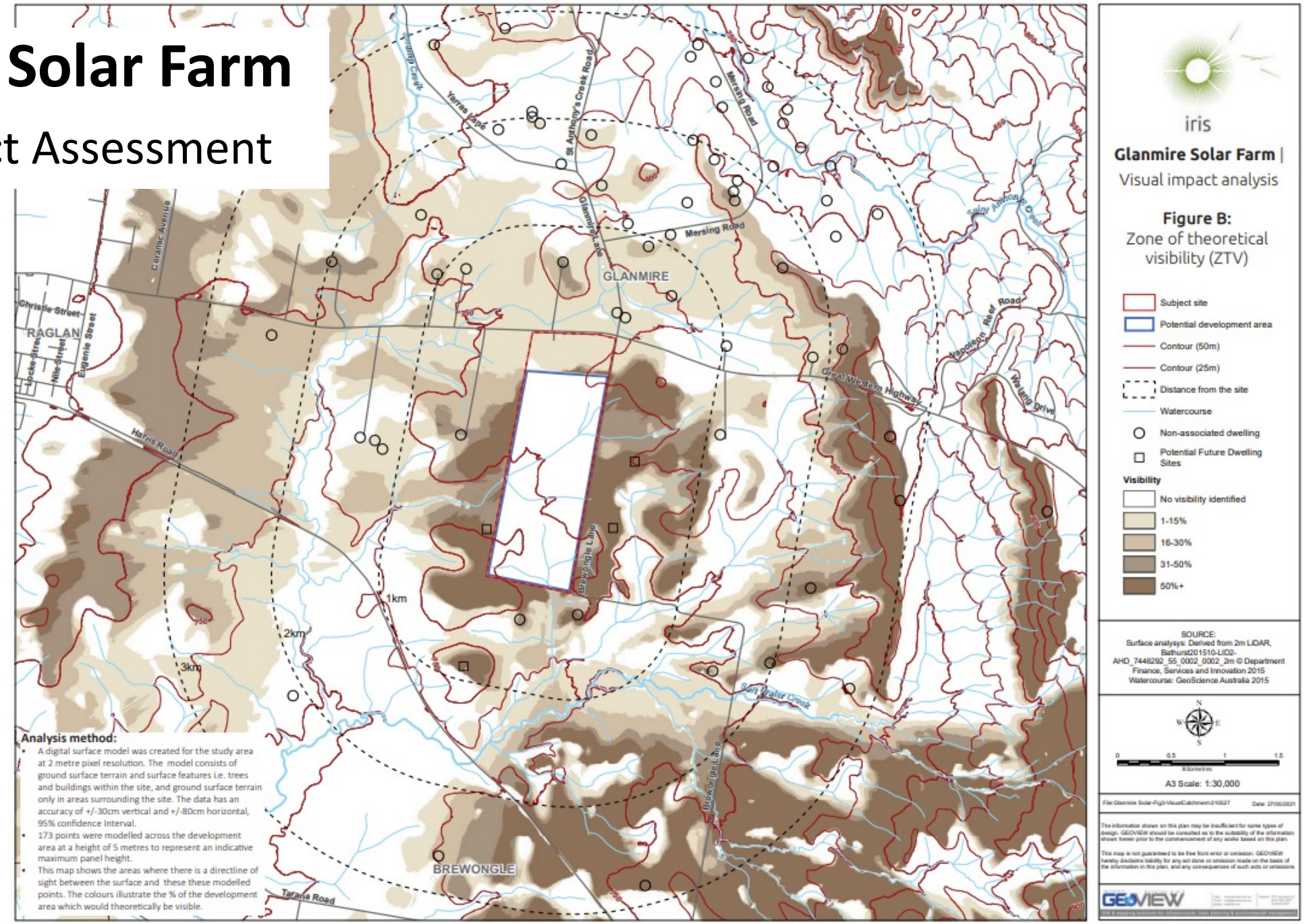
Visual amenity impact methodology

- Preliminary assessment tools
- Photomontages



Glanmire Solar Farm

Visual Impact Assessment



Glanmire Solar Farm

Visual Impact Assessment

- What is glare
- Glare assessment approach
- Solar Glare Hazard Tool

Table 2. Glint and glare requirements

EIS glare assessment requirements

• a description of the proposed PV panels including:
  ○ whether the PV panels will be multi-axis tracking, single axis tracking or fixed (where single-axis tracking the axis of rotation should be identified)
  ○ the light absorption efficiency or refractive index values of the PV panels to be used for the project
  ○ whether any tracking will include backtracking operations and the hours of occurrence and duration of these operations

• identification of receivers within 4 km, • justification for any receiver that do not warrant a glare assessment including supporting evidence • glare modelling results that indicate the expected duration of glare during the day and throughout the year at each potential glare receiver • categorisation of the impacts for each viewpoint in accordance with the impact rating and objectives in Table 3 • identification of existing vegetation or built structures between the solar energy project and residential receivers and an assessment of whether these features would reduce the modelled impacts • details of strategies to either avoid or mitigate unacceptable glare impacts to identified residential receptors.

Glanmire Solar Farm

Visual Impact Assessment

- Next Steps
  - Further field assessment
  - Preparation of photomontages
  - Prepare final VIA report

- Questions?