

Landscape & Visual Amenity

Hayden Burge

CCG meeting - 29 May 2024

LANDSCAPE AND VISUAL AMENITY

EES scoping requirements

Aspect
Scoping requirements

Key issues

- Potential effects on significant landscape values and landforms in the vicinity of the project area of interest, especially national parks, other reserves, and areas identified for their landscape values
- Potential for **nearby landowners, residents, and communities** to be exposed to significant visual effects
- Potential cumulative impacts of the project in combination with other visually conspicuous developments on landscape values of the region.

Existing conditions

- Characterise the landscape character, features, and values
- Identify public and private viewsheds and characterise visual values of the area.
- Identify the components of the project that may result in a significant visual amenity effect
- Identify viewsheds areas in which project infrastructure could feature, including from representative residences, public lookouts, tourist attractions, representative roads, and key vantage points
- Identify existing prominent built features within the landscape and their impact on the existing landscape and visual setting.

LANDSCAPE AND VISUAL AMENITY

EES scoping requirements

Aspect	Scoping requirements
Mitigation measures	<ul style="list-style-type: none"> Identify and evaluate any potential <u>design, siting and alignment options</u> that could avoid and minimise potential effects on landscape and visual amenity, having regard to viewpoints from which the project could be visually conspicuous. Identify additional <u>management strategies</u> that may further reduce potential effects.
Likely effects	<ul style="list-style-type: none"> Assess the landscape and visual effects of the project, including on public and <u>private viewpoints</u>. Use photomontages and other visual techniques to support the assessment. Assess the potential for cumulative impacts associated with the development of the project in the context of existing built infrastructure and nearby proposed/approved visually significant development.
Performance criteria	<ul style="list-style-type: none"> <u>Outline measures</u> to monitor the success of commitments to <u>mitigate or manage effects on landscape and visual values</u> during all phases of the project. Describe the approach to monitor effects and develop contingency measures to be implemented in the event of adverse residual effects on landscape and visual values requiring further management.

LANDSCAPE AND VISUAL AMENITY

Key Features

- Bulgana Terminal Station
- 500kV Double Circuit Towers
- 500kV Single Circuit Towers
- 450 to 550m spacings
- Construction works



LANDSCAPE AND VISUAL AMENITY

Key Features

- Bulgana Terminal Station
- 500kV Double Circuit Towers
- 500kV Single Circuit Towers
- 450 to 550m spacings
- Construction works



Landscape and visual amenity

Key Features

- Bulgana Terminal Station
- **500kV Double Circuit Towers**
- 500kV Single Circuit Towers
- 450 to 550m spacings
- Construction works



LANDSCAPE AND VISUAL AMENITY

Key Features

- Bulgana Terminal Station
- 500kV Double Circuit Towers
- **500kV Single Circuit Towers**
- 450 to 550m spacings
- Construction works



LANDSCAPE AND VISUAL AMENITY

Key Features

- Bulgana Terminal Station
- 500kV Double Circuit Towers
- 500kV Single Circuit Towers
- 450 to 550m spacings
- Construction works



LANDSCAPE AND VISUAL AMENITY

Methodology - Steps

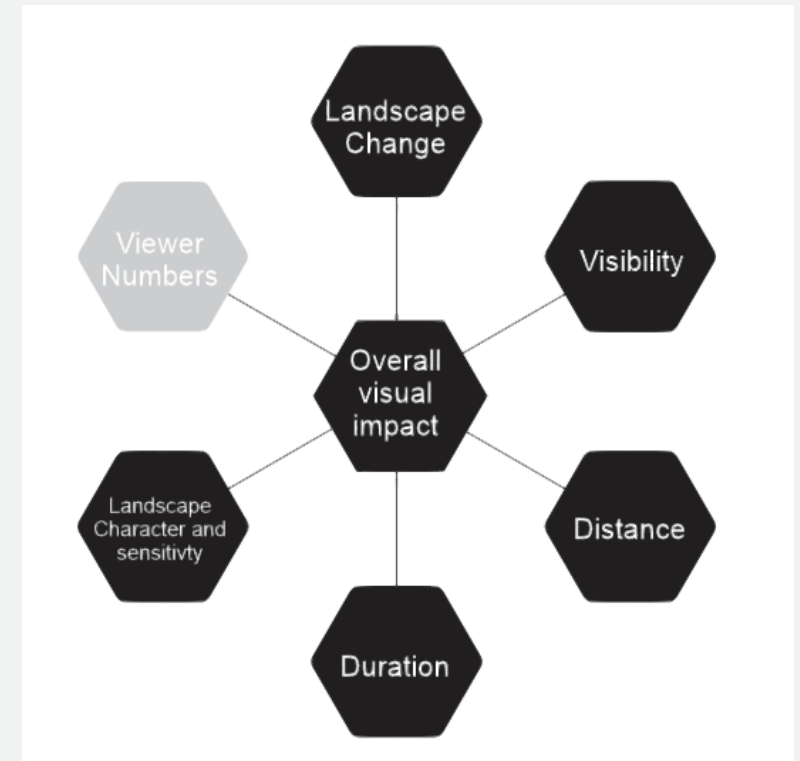
- Describe the Project
- Define the extent of the visual study area and Zones of Visual Influence
- Seen Area Analysis / Theoretical visibility modelling
- Policy Review
- Existing Conditions and Landscape Character/Sensitivity
- Impact Assessment
- Photomontages
- Mitigation

LANDSCAPE AND VISUAL AMENITY

Landscape and visual amenity

How do we assess the subjective objectively?

- **Landscape Change** : The physical change or alteration to the landscape, use and planning status
- **Visibility**: If a project is not visible, there cannot be a visual impact.
- **Distance**: prominence will decrease with distance
- **Duration**: Duration is partly linked to use or activity
- **Landscape character and sensitivity**: Features planning provisions.
- **Viewer numbers**: Viewer numbers may also be linked to use.

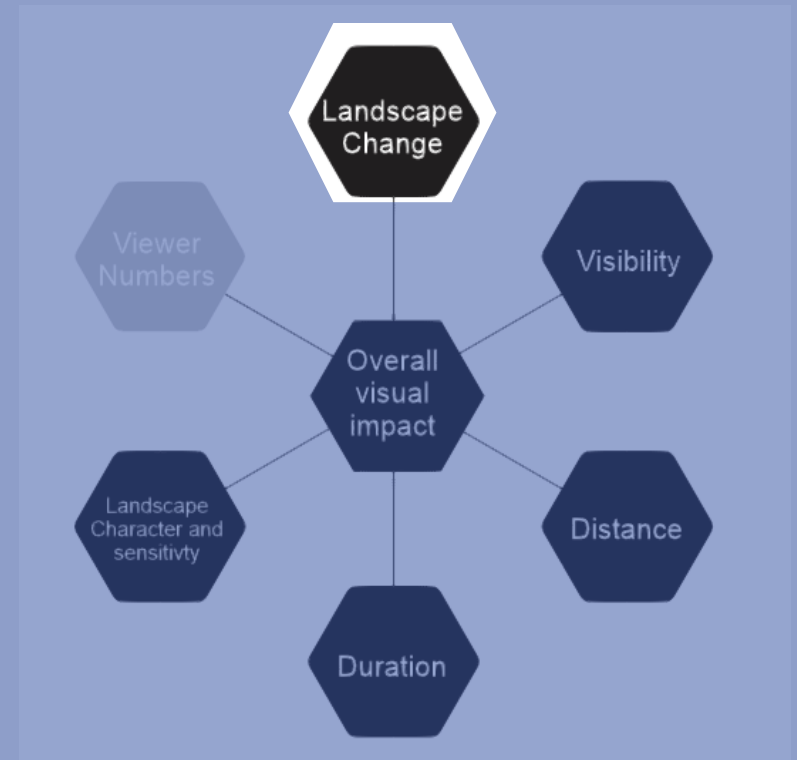


LANDSCAPE AND VISUAL AMENITY

Impact assessment

How do we assess the subjective objectively?

- **Landscape Change** : The physical change or alteration to the landscape, use and planning status
- **Visibility**: If a project is not visible, there cannot be a visual impact.
- **Distance**: prominence will decrease with distance
- **Duration**: Duration is partly linked to use or activity
- **Landscape character and sensitivity**: Features planning provisions.
- **Viewer numbers**: Viewer numbers may also be linked to use.

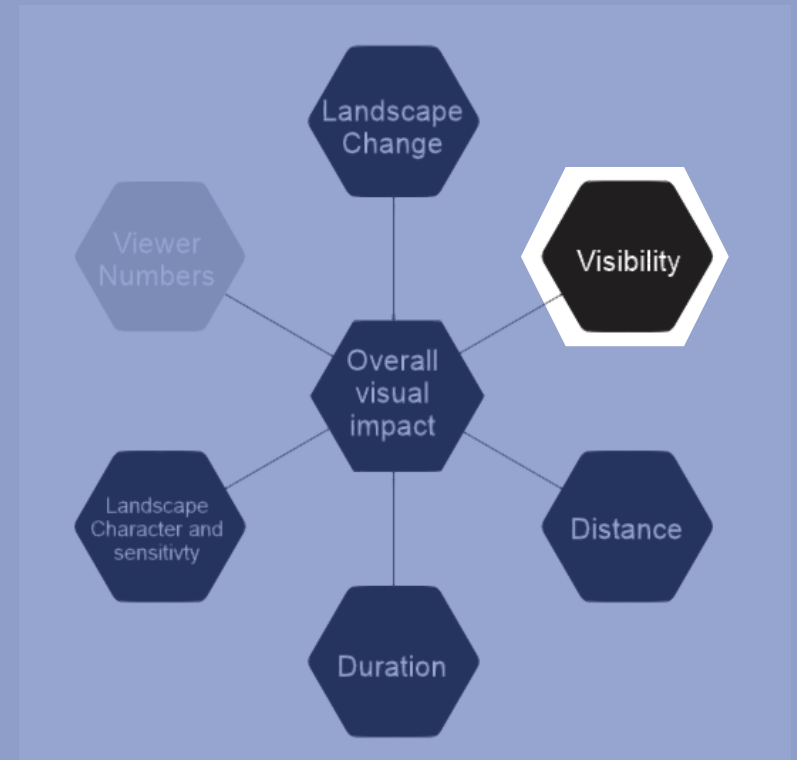


LANDSCAPE AND VISUAL AMENITY

Impact assessment

How do we assess the subjective objectively?

- **Landscape Change** : The physical change or alteration to the landscape, use and planning status
- **Visibility**: If a project is not visible, there cannot be a visual impact.
- **Distance**: prominence will decrease with distance
- **Duration**: Duration is partly linked to use or activity
- **Landscape character and sensitivity**: Features planning provisions.
- **Viewer numbers**: Viewer numbers may also be linked to use.

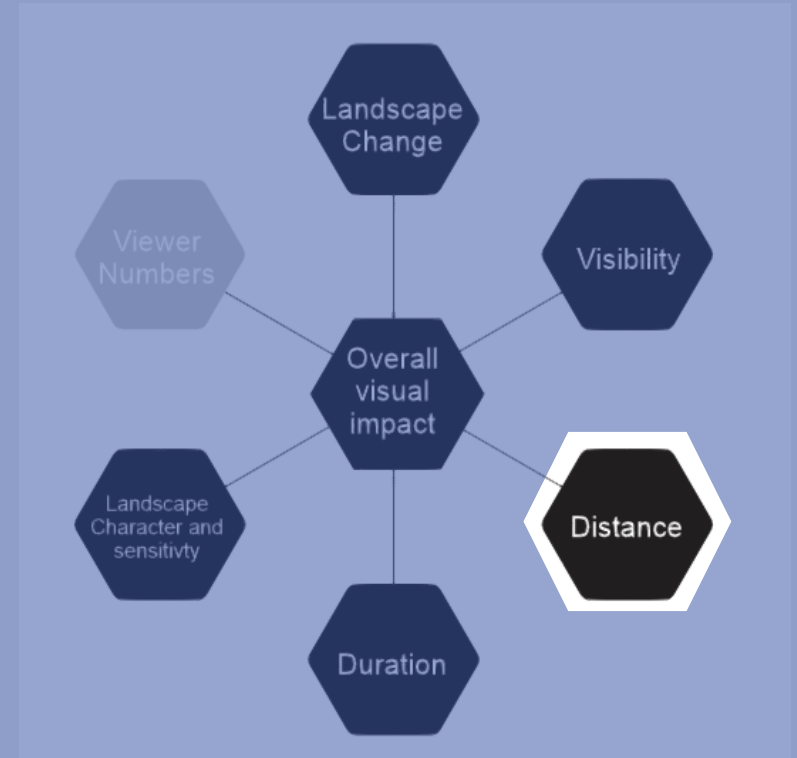


LANDSCAPE AND VISUAL AMENITY

Impact assessment

How do we assess the subjective objectively?

- **Landscape Change** : The physical change or alteration to the landscape, use and planning status
- **Visibility**: If a project is not visible, there cannot be a visual impact.
- **Distance**: prominence will decrease with distance
- **Duration**: Duration is partly linked to use or activity
- **Landscape character and sensitivity**: Features planning provisions.
- **Viewer numbers**: Viewer numbers may also be linked to use.

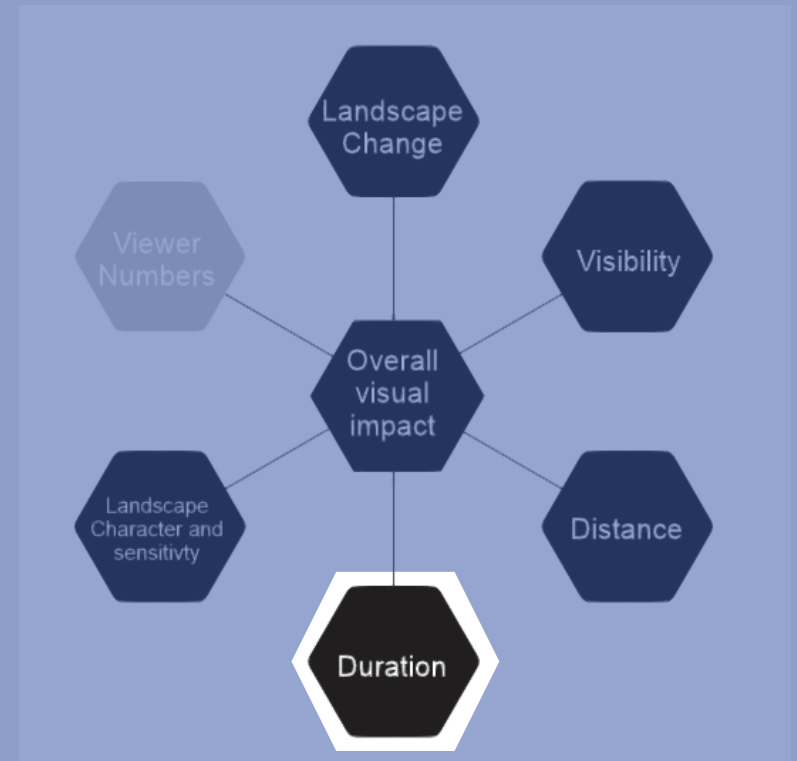


LANDSCAPE AND VISUAL AMENITY

Impact assessment

How do we assess the subjective objectively?

- **Landscape Change** : The physical change or alteration to the landscape, use and planning status
- **Visibility**: If a project is not visible, there cannot be a visual impact.
- **Distance**: prominence will decrease with distance
- **Duration**: Duration is partly linked to use or activity
- **Landscape character and sensitivity**: Features planning provisions.
- **Viewer numbers**: Viewer numbers may also be linked to use.

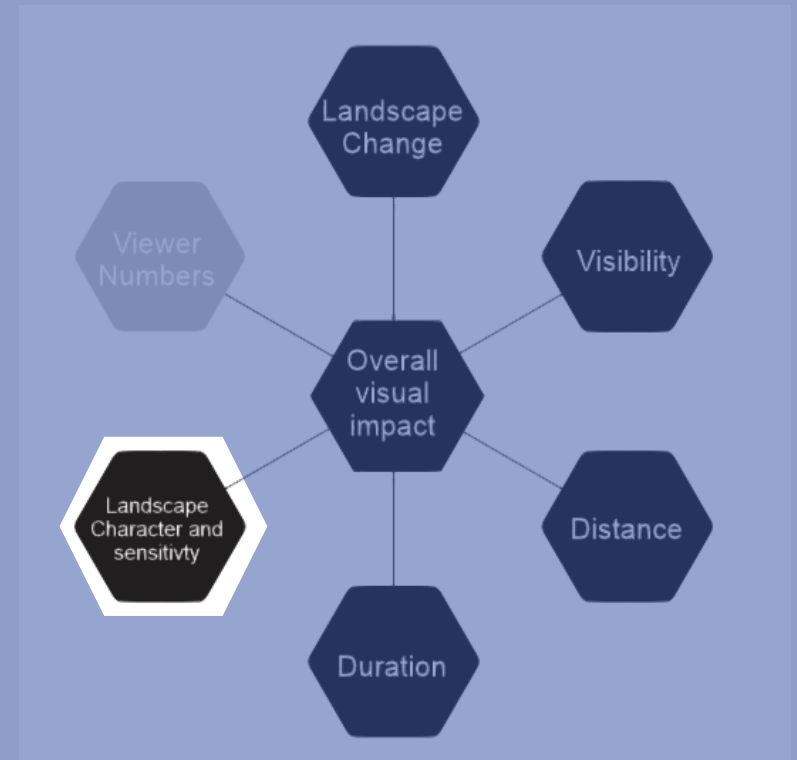


LANDSCAPE AND VISUAL AMENITY

Impact assessment

How do we assess the subjective objectively?

- **Landscape Change** : The physical change or alteration to the landscape, use and planning status
- **Visibility**: If a project is not visible, there cannot be a visual impact.
- **Distance**: prominence will decrease with distance
- **Duration**: Duration is partly linked to use or activity
- **Landscape character and sensitivity**: Features planning provisions.
- **Viewer numbers**: Viewer numbers may also be linked to use.

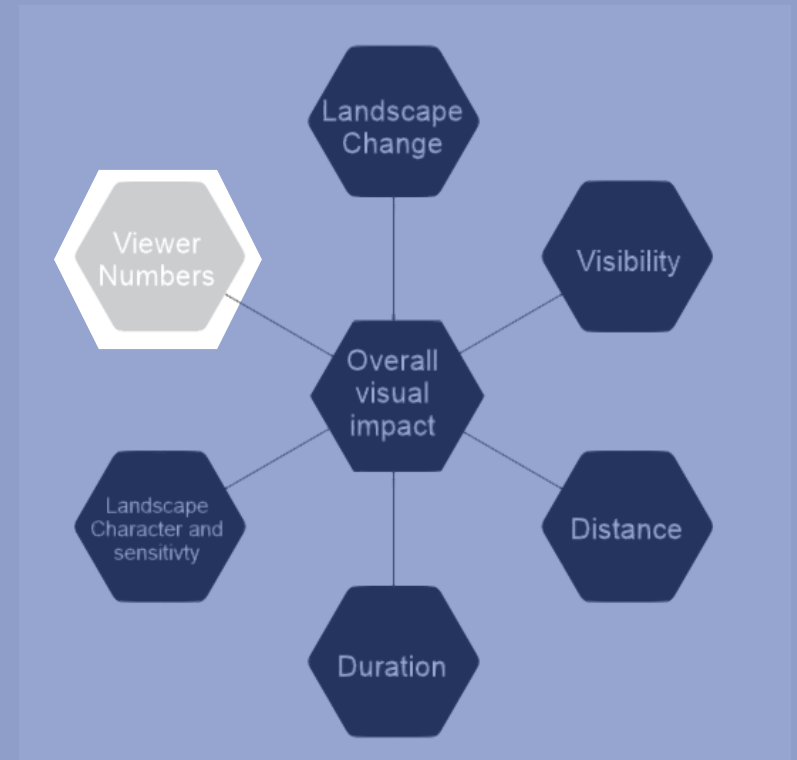


LANDSCAPE AND VISUAL AMENITY

Impact assessment

How do we assess the subjective objectively?

- **Landscape Change** : The physical change or alteration to the landscape, use and planning status
- **Visibility**: If a project is not visible, there cannot be a visual impact.
- **Distance**: prominence will decrease with distance
- **Duration**: Duration is partly linked to use or activity
- **Landscape character and sensitivity**: Features planning provisions.
- **Viewer numbers**: Viewer numbers may also be linked to use.

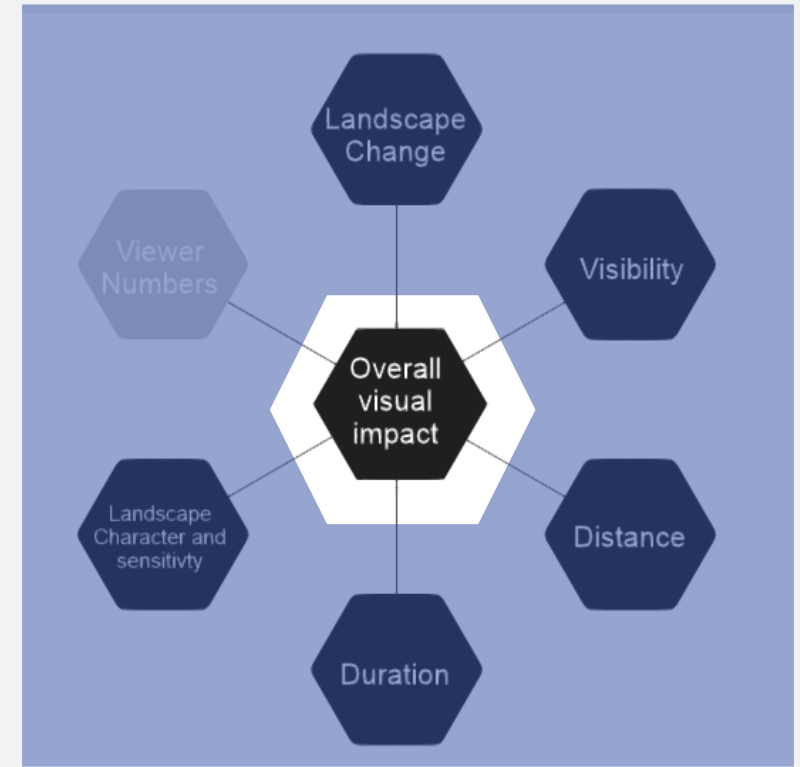


LANDSCAPE AND VISUAL AMENITY

Impact assessment

How do we assess the subjective objectively?

- **Nil**
- **Negligible**
- **Low**
- **Moderate**
- **High**
- **High-cannot be Mitigated (Dwellings)**



LANDSCAPE AND VISUAL AMENITY

Impact assessment

It is fundamental that:

- Photomontages are technically accurate; and
- They are reproduced to be perceptually accurate.



Technical Accuracy



Perceptual Accuracy

Impact assessment



A4

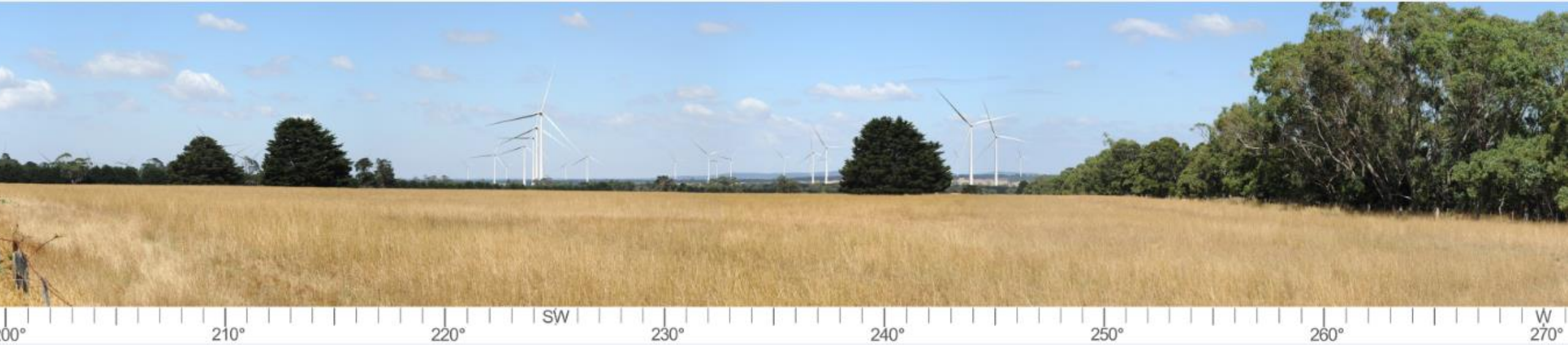


A3



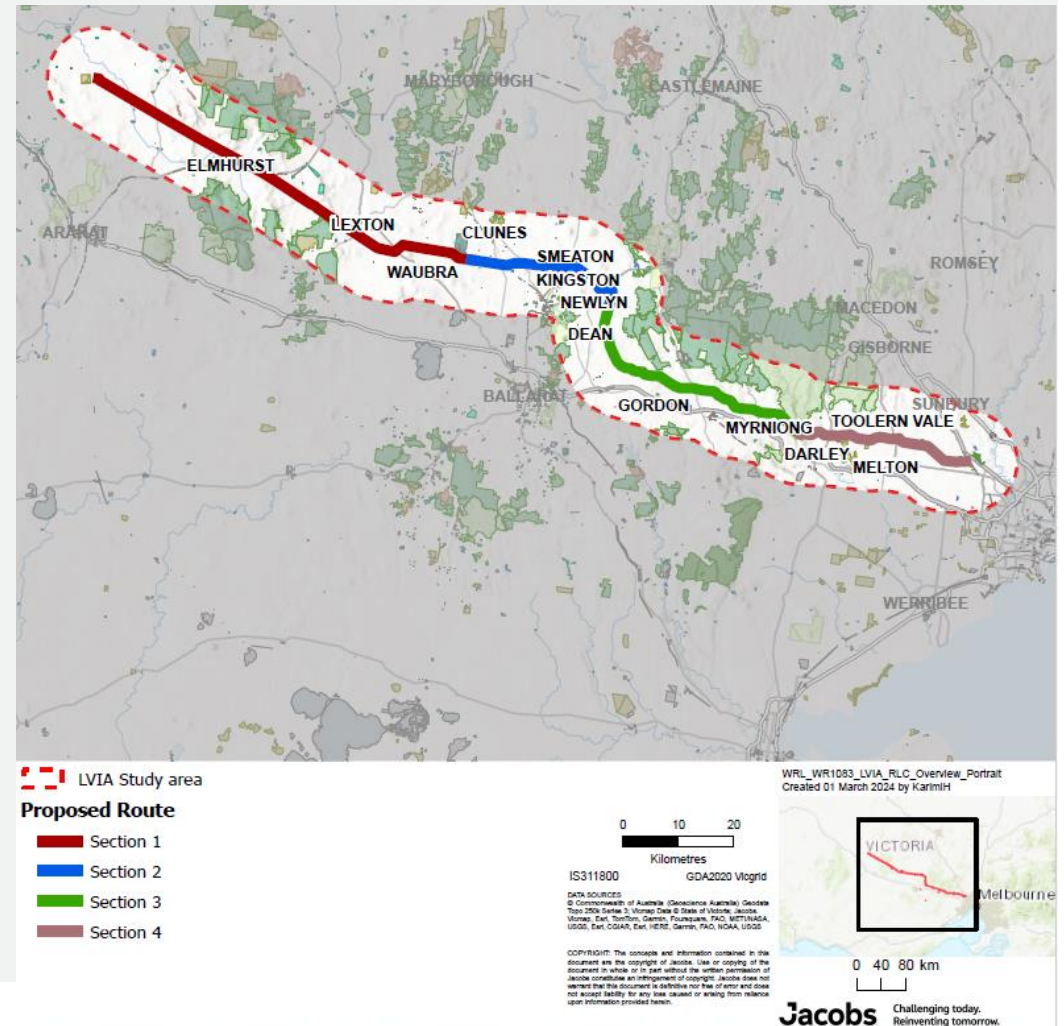
A0 – Poster

Photomontages *Technical Accuracy*



Public Realm – Regional Character

1. **Vegetated Hills and Farming:** Bulgana – Fentons Road
2. **Plains and Volcanic Cones:** Fentons Road – Rocky Lead Creek
3. **Rolling Farmland and Water Bodies:** Rocky Lead Creek - Swans Road
4. **Peri Urban:** Swans Road - Sydenham



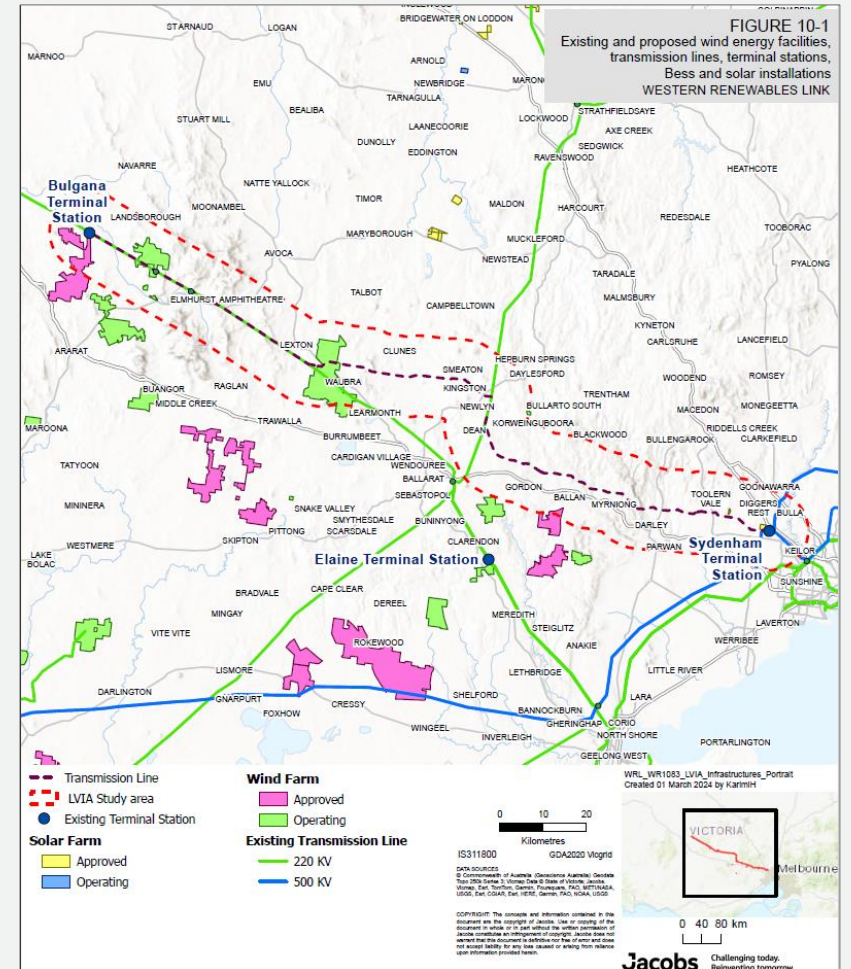
Public Realm – Landscape Character Units

- Landscape Character Unit 1a - Townships
- Landscape Character Unit 1b – Rural Residential
- Landscape Character Unit 2a - Cleared Flat Farmland
- Landscape Character Unit 2b – Cleared Hilly Farmland
- Landscape Character Unit 3 - Extractive and Industrial
- Landscape Character Unit 4 – Plantation forests
- Landscape Character Unit 5 - Water bodies and waterways
- Landscape Character Unit 6 – National Parks/State Forests
- Landscape Character Unit 7 – Volcanic Cones
- Landscape Character Unit 8 – Valleys and Gorges
- Landscape Character Unit 9 – Heritage Landscapes



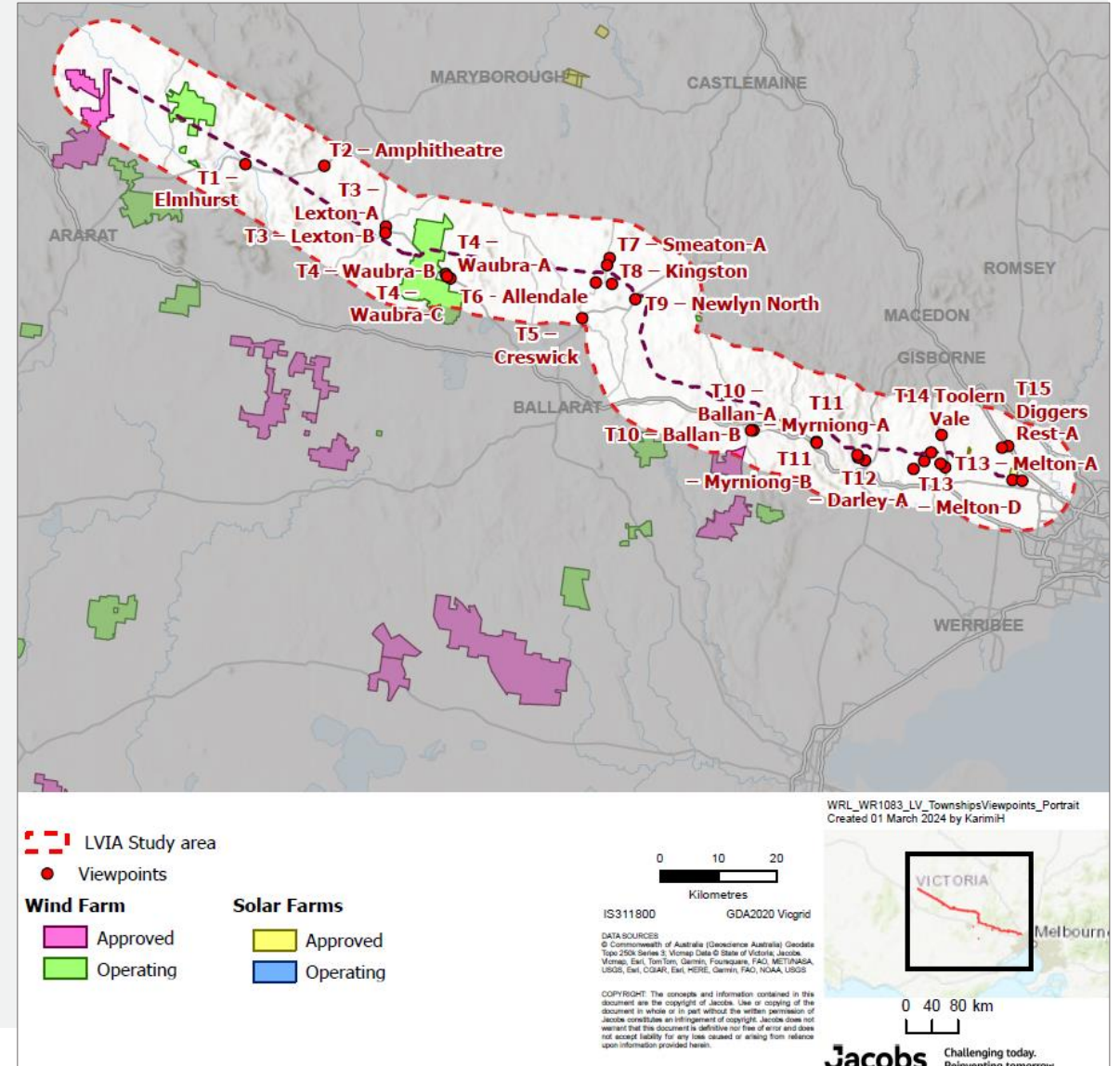
Public Realm – Cumulative Considerations

- Existing and proposed transmission lines
- Terminal Stations
- Wind and Solar Farms



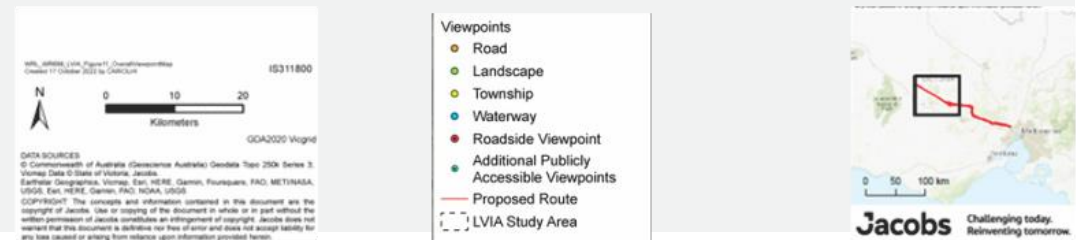
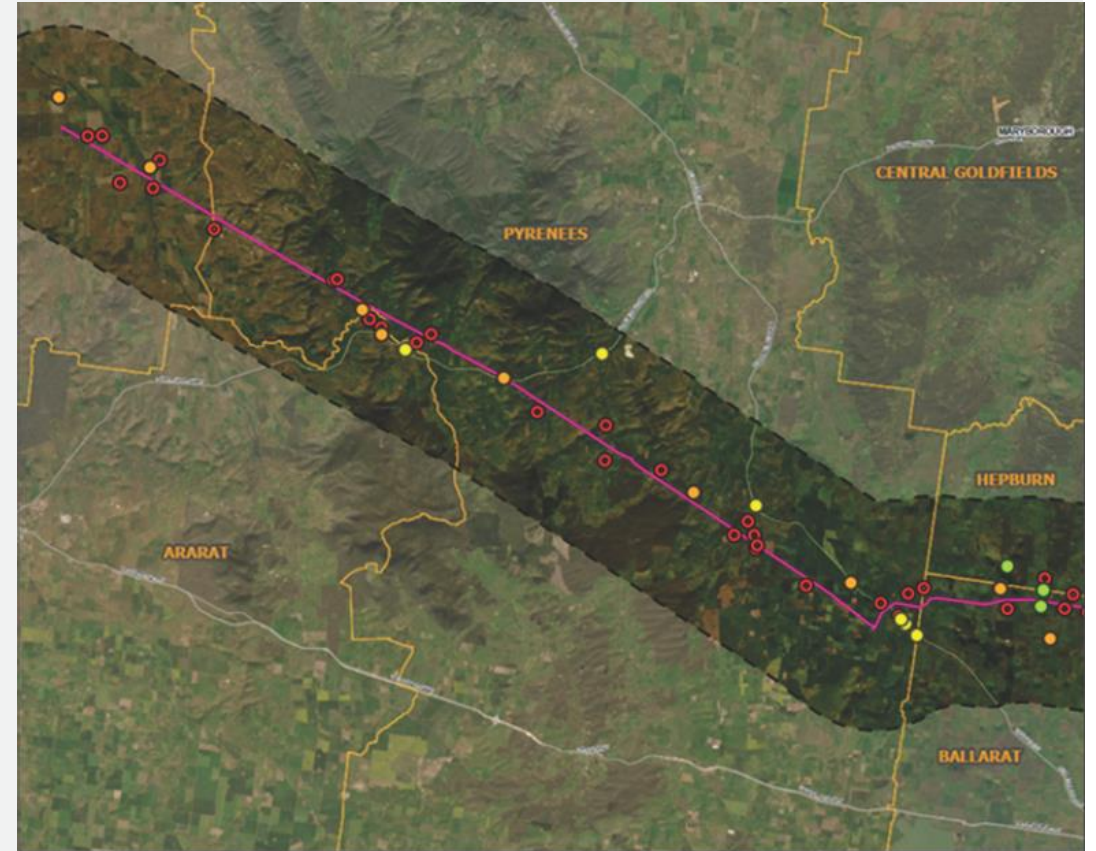
Public Realm – Townships

Viewpoint
T1 – Elmhurst
T2 – Amphitheatre
T3 – Lexton
* T4 – Waubra
T5 – Creswick
T6 - Allendale
T7 – Smeaton
* T8 – Kingston
* T9 – Newlyn North
* T10 – Ballan
T11 – Myrning
* T12 – Darley
T13 – Melton
T14 Toolern Vale
T15 Diggers Rest
T16 Hillside



Public Realm – Vegetated Hills and Farming

Viewpoint
SL1 – Mount Beckworth Scenic Reserve
SL2 – Ben Major Lookout
M1 –Pyrenees Highway #1
M2 - Pyrenees Highway #2
M3 - Sunraysia Highway
L1 – Joel Joel Hall
L1 – Landsborough Road
L2 – Joel Joel Road
L3 - Joel Joel War Monument
* L3 – Landsborough-Elmhurst Road
L4 – Lexton-Ararat Road
** L5 – Coghills Creek Road
L6 – Fentons Road
L7 - Corner Coghills Creek Road and Glendonald Road



Public Realm – Plains and volcanic cones

Viewpoint
* SL2 – Buried Rivers of Gold #1 – Daylesford Clunes Road
SL3 – Buried Rivers of Gold #2 – West Berry Road
SL4 – Buried Rivers of Gold #3 - West Berry Road
SL5 – Buried Rivers of Gold #4 – Beaconsfield Road
SL6 – Buried Rivers of Gold #5 – Ewen Charlesons Road
SL7 – Buried Rivers of Gold #6– Creswick Lawrence Road
W1 – Newlyn Reservoir
* M4 – Midland Highway #1
M5 – Midland Highway #2
L8 – Ballarat-Maryborough Road
L9 – Werona-Kingston Road
L10 – Daylesford Clunes Road
*L11 – Blampied-Molongghip Road #1

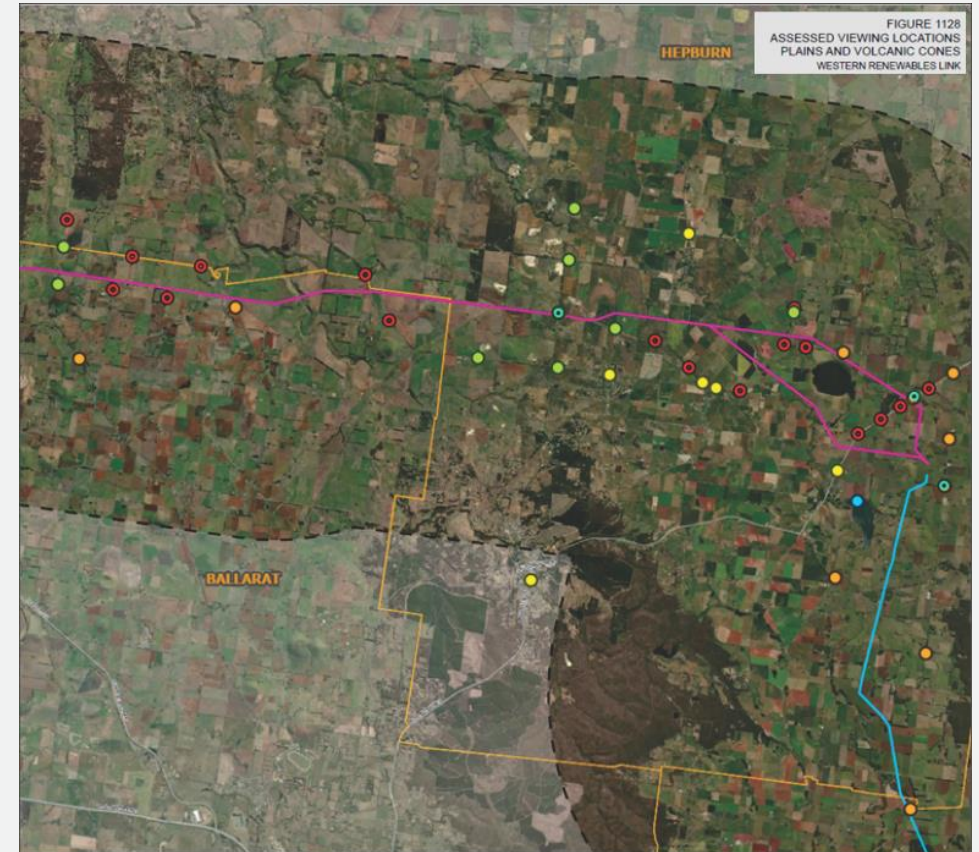
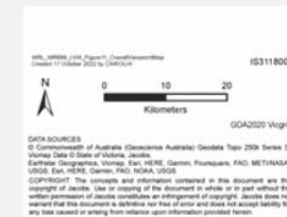


FIGURE 1128
ASSESSED VIEWING LOCATIONS
PLAINS AND VOLCANIC CONES
WESTERN RENEWABLES LINK

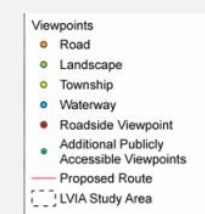
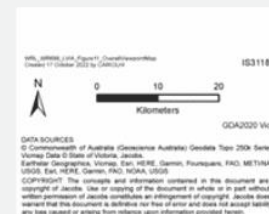
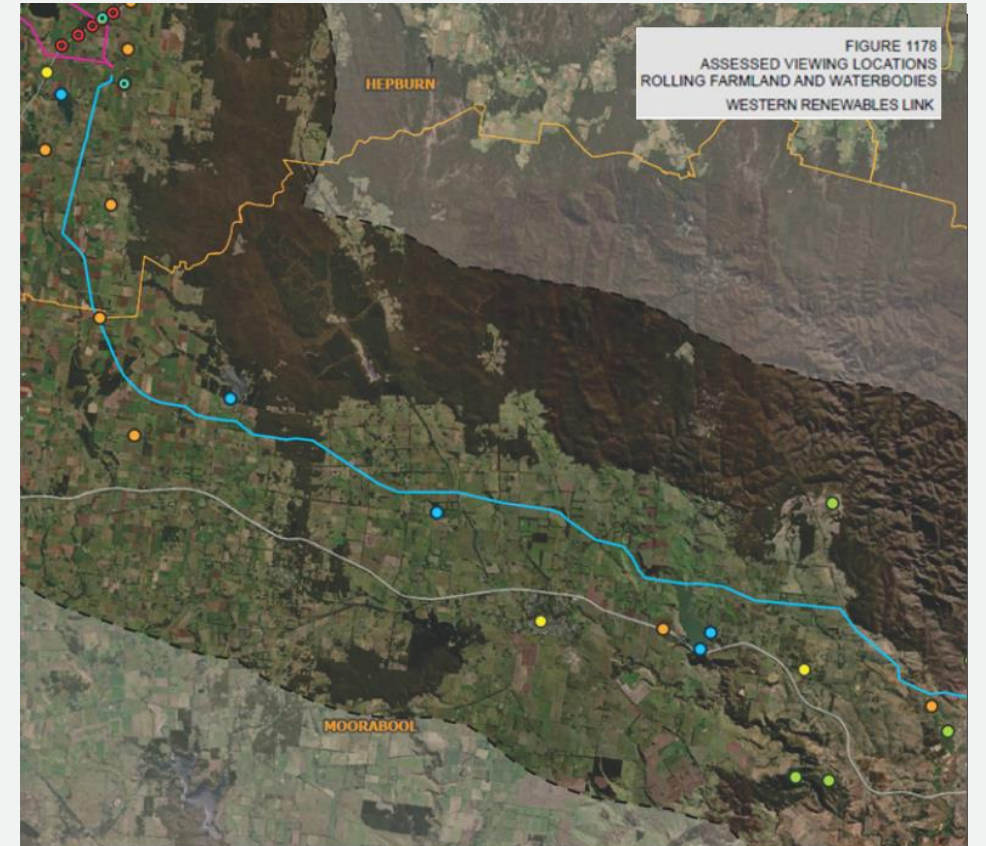


- Viewpoints**
- Road
 - Landscape
 - Township
 - Waterway
 - Roadside Viewpoint
 - Additional Publicly Accessible Viewpoints
 - Proposed Route
 - LVIA Study Area



Public Realm – Rolling Farmland and Water Bodies

Viewpoint
* SL7 – Mount Blackwood
W2 – Moorabool Reservoir
* W3 – Bolwarrah Weir
* W4 – Pykes Creek Reservoir
F1 – Western Freeway #1
L13 – Corner Railway Road and Dean-Newlyn Road
L14 – Blampied-Molongghip Road #3
L15 – Springbank Road



Public Realm – Peri Urban

SL8 – Werribee Gorge
SL9 – Lerderderg Gorge and State Park
SL10 – Bald Hill
SL11 – Lerderderg Nature Trail
* W5 – Merrimu Reservoir
F2 – Western Freeway #2
F2 – Calder Freeway
M6 – Gisborne Road
M7 – Diggers Rest – Coimadai Road #1
M8 – Diggers Rest – Coimadai Road #2
L17 – Swans Road
L18 – Lerderderg Gorge Road #1
L19 – Lerderderg Gorge Road #2
L20 – Bulmans Road
L21 – Leakes Road
* L22 – Holden / Leakes Road
* L23 – Holden Road
L24 – Plumpton Road

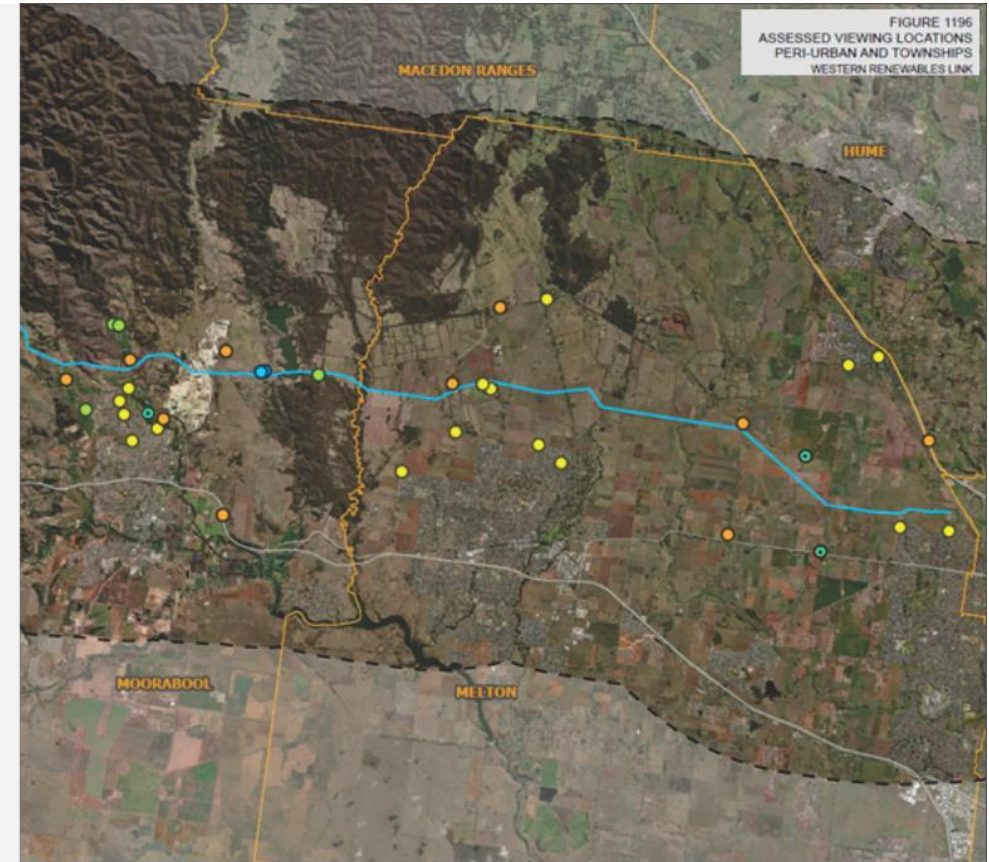
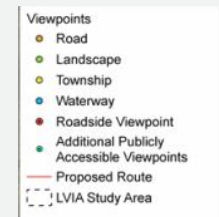
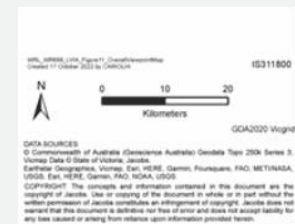


FIGURE 1196
ASSESSED VIEWING LOCATIONS
PERI-URBAN AND TOWNSHIPS
WESTERN RENEWABLES LINK



Residential Assessments



- Last time we met 10 properties granted permission
- 40+ have since taken up the offer
- Ongoing