# Rotherwood Road/Coolah Road (PM01)

## Comparison Study - Approved Project (185 WTGs) vs Mod-3 Project (173 WTGs)

moir STUDIO

## Methodology

### Magnitude
The visual magnitude is calculated by assessing how much of a 180° field of view the project occupies. The view is divided into a grid of 1° × 10° cells, and the number of cells occupied by the project is counted (see photomontage with cell-count overlay). The total number of occupied cells determines the magnitude rating; for example, occupying 37 or more cells results in a very high magnitude rating.

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### Sensitivity
Sensitivity is determined by the scenic quality of a viewpoint and how visually sensitive the location is. Private viewpoints generally have moderate to high sensitivity, while most public viewpoints are less sensitive unless they are key locations such as lookouts or town centres. Scenic quality is assessed using criteria such as landforms, vegetation, water features, and cultural or human elements, following the DPHI guidelines.

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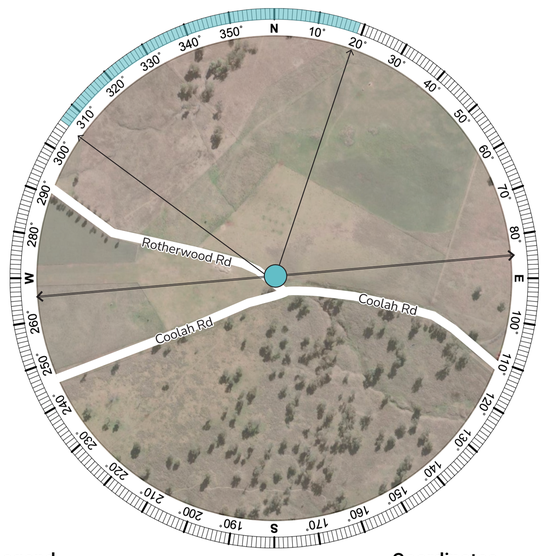
### Visual Impact Rating
The overall visual impact rating is determined by combining the magnitude and sensitivity ratings using the DPHI Visual Impact Matrix.

## Visual Impact Matrix

| Magnitude \ Sensitivity | High | Moderate | Low | Very Low |
|---|---|---|---|---|
| Very High 37+ Cells | High | High | Moderate | Moderate |
| High 26-36 Cells | High | Moderate | Moderate | Low |
| Moderate 15-25 Cells | Moderate | Moderate | Low | Low |
| Low 8-14 Cells | Moderate | Low | Low | Very Low |
| Very Low 1-7 Cells | Low | Low | Very Low | Very Low |

## Location




**Legend**

Extent of Potential Visibility to Mod-3 Layout

Extent of Panorama

**Coordinates**

32°00′07.92″S
149° 58′12.40″E

## Comparison Assessment

| Approved Layout | Mod-3 Layout |
|---|---|
| **Sensitivity Rating** | |
| **Low** | **Low** |

The viewpoint sensitivity is rated **Low** due to the combination of **Low Sensitivity** and **Low Scenic Quality**. **No change** is recorded between the approved layout and Mod-3 layout as the viewpoint has not changed.

| Magnitude Rating | |
|---|---|
| **Moderate (15 Cells)** | **Moderate (15 Cells)** |

The Mod-3 layout results in the same magnitude as the approved layout, with 15 cells occupied. Both layouts fall within the **Moderate** magnitude rating range.

***Note: Some cells with visible turbines are not counted as the turbines are located outside of the study area**

| Visual Impact Rating | |
|---|---|
| **Low** | **Low** |

The Mod-3 layout has the same number of cell count as the approved layout and both layouts result in a **Low** Visual Impact rating.

## Photomontage Comparison

### Approved Layout - No cell count overlay

**Max Blade Tip Height:** 215 m **WTGs Layout:** 185 turbines



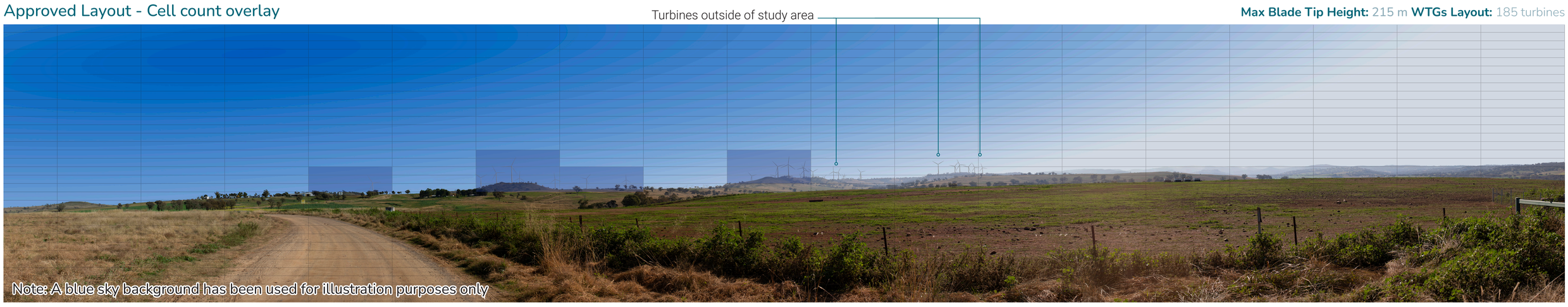
### Mod 3 Layout - No cell count overlay

**Max Blade Tip Height:** 215 m **WTGs Layout:** 173 turbines



### Approved Layout - Cell count overlay

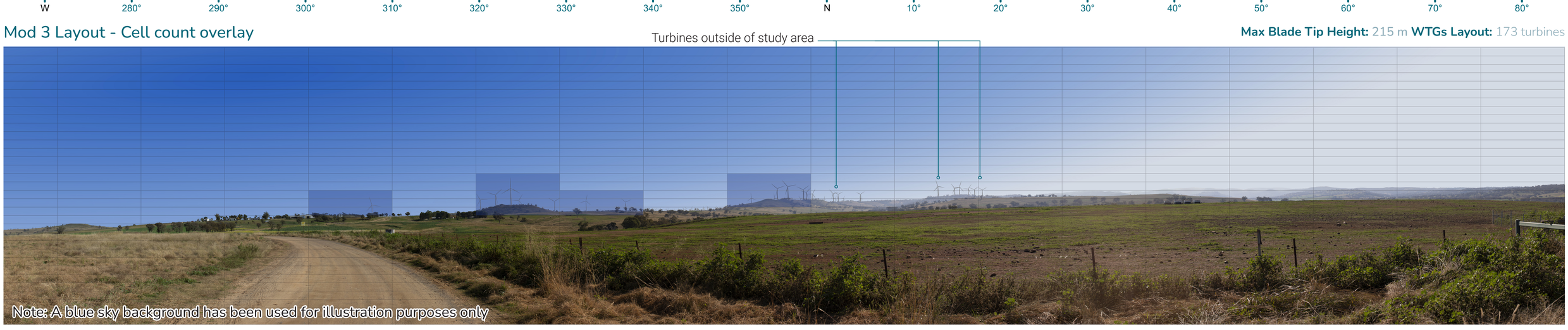
**Max Blade Tip Height:** 215 m **WTGs Layout:** 185 turbines





### Mod 3 Layout - Cell count overlay

**Max Blade Tip Height:** 215 m **WTGs Layout:** 173 turbines




# Turee Vale Road (PM05)

## Comparison Study - Approved Project (185 WTGs) vs Mod-3 Project (173 WTGs)

moir STUDIO

## Methodology

### Magnitude
The visual magnitude is calculated by assessing how much of a 180° field of view the project occupies. The view is divided into a grid of 1° × 10° cells, and the number of cells occupied by the project is counted (see photomontage with cell-count overlay). The total number of occupied cells determines the magnitude rating; for example, occupying 37 or more cells results in a very high magnitude rating.

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### Sensitivity
Sensitivity is determined by the scenic quality of a viewpoint and how visually sensitive the location is. Private viewpoints generally have moderate to high sensitivity, while most public viewpoints are less sensitive unless they are key locations such as lookouts or town centres. Scenic quality is assessed using criteria such as landforms, vegetation, water features, and cultural or human elements, following the DPHI guidelines.

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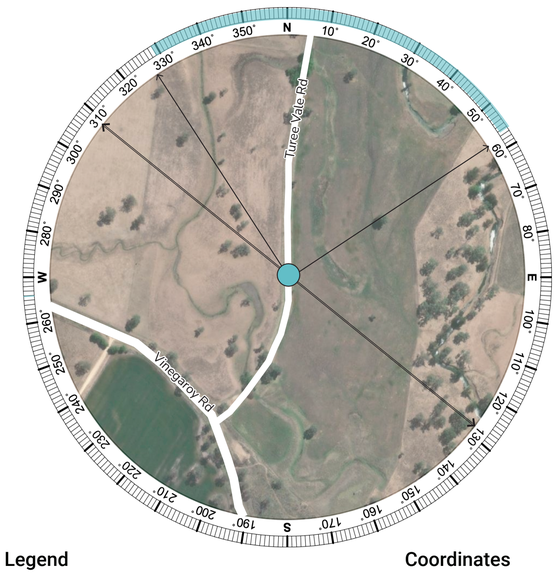
### Visual Impact Rating
The overall visual impact rating is determined by combining the magnitude and sensitivity ratings using the DPHI Visual Impact Matrix.

## Visual Impact Matrix

| Magnitude \ Sensitivity | High | Moderate | Low | Very Low |
|---|---|---|---|---|
| Very High 37+ Cells | High | High | Moderate | Moderate |
| High 26-36 Cells | High | Moderate | Moderate | Low |
| Moderate 15-25 Cells | Moderate | Moderate | Low | Low |
| Low 8-14 Cells | Moderate | Low | Low | Very Low |
| Very Low 1-7 Cells | Low | Low | Very Low | Very Low |

## Location




**Legend**

Extent of Potential Visibility to Mod-3 Layout

Extent of Panorama

**Coordinates**

31°54'10.01"S
149° 49'40.54"E

## Comparison Assessment

| Approved Layout | Mod-3 Layout |
|---|---|
| **Sensitivity Rating** | |
| **Low** | **Low** |

The viewpoint sensitivity is rated **Low** due to the combination of **Low Sensitivity** and **Low Scenic Quality**. **No change** is recorded between the approved layout and Mod-3 layout as the viewpoint has not changed.

| Magnitude Rating | |
|---|---|
| **Low (9 Cells)** | **Very Low (7 Cells)** |

The Mod-3 layout results in a lower magnitude than the approved layout, with two fewer cells occupied. This reduction drops the magnitude rating of Mod-3 layout to **Very Low** magnitude rating range.

***Note: Some cells with visible turbines are not counted as the turbines are located outside of the study area**

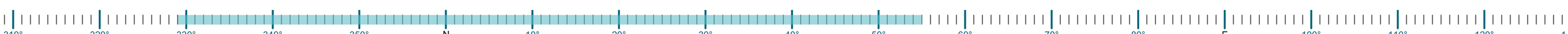
| Visual Impact Rating | |
|---|---|
| **Low** | **Very Low** |

The Mod-3 layout has a reduced cell count and it falls in the **Very Low** Visual Impact rating.

## Photomontage Comparison

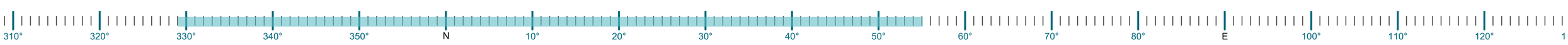
### Approved Layout - No cell count overlay

**Max Blade Tip Height:** 215 m **WTGs Layout:** 185 turbines

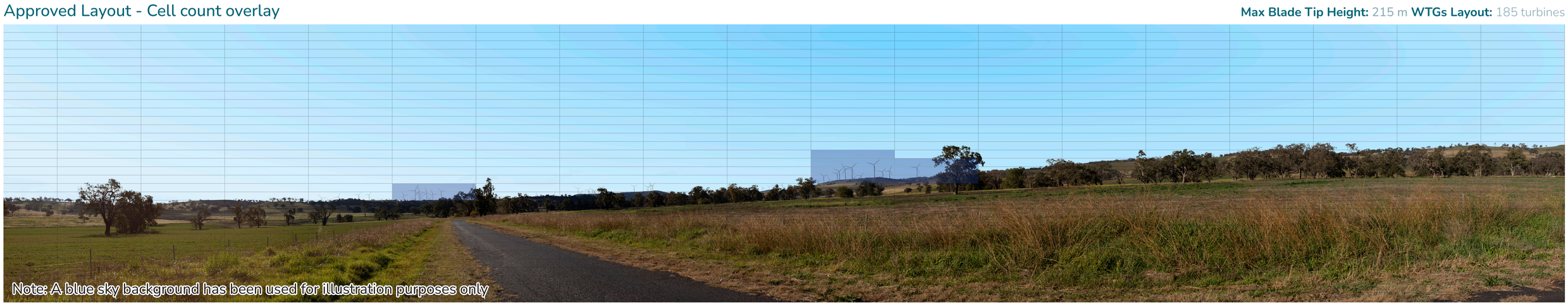

### Mod 3 Layout - No cell count overlay

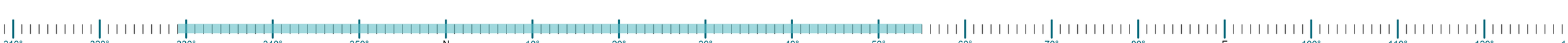
**Max Blade Tip Height:** 215 m **WTGs Layout:** 173 turbines


### Approved Layout - Cell count overlay

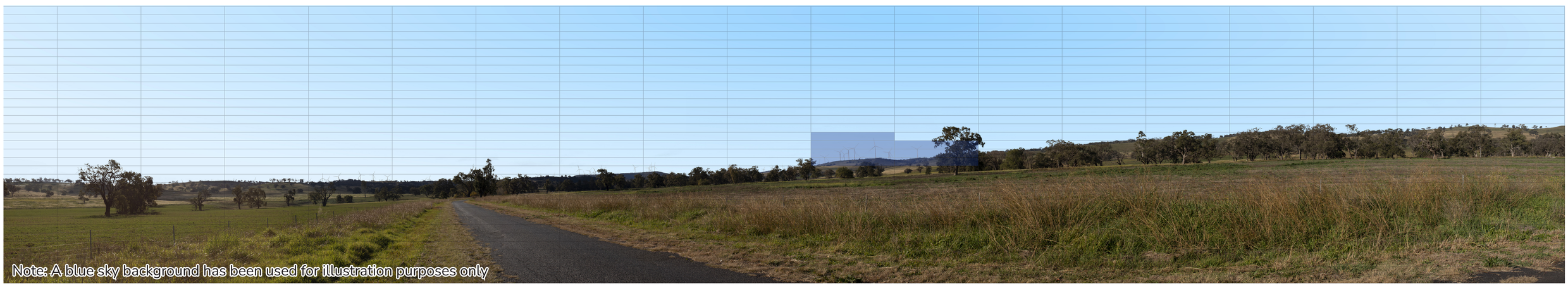
**Max Blade Tip Height:** 215 m **WTGs Layout:** 185 turbines

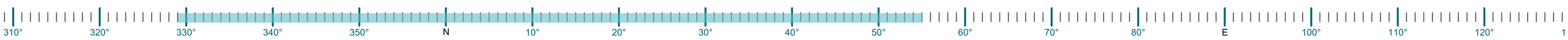



### Mod 3 Layout - Cell count overlay

**Max Blade Tip Height:** 215 m **WTGs Layout:** 173 turbines



# Coolah Valley Lookout (PM06)

## Comparison Study - Approved Project (185 WTGs) vs Mod-3 Project (173 WTGs)

moir STUDIO

## Methodology

### Magnitude
The visual magnitude is calculated by assessing how much of a 180° field of view the project occupies. The view is divided into a grid of 1° × 10° cells, and the number of cells occupied by the project is counted (see photomontage with cell-count overlay). The total number of occupied cells determines the magnitude rating; for example, occupying 37 or more cells results in a very high magnitude rating.

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### Sensitivity
Sensitivity is determined by the scenic quality of a viewpoint and how visually sensitive the location is. Private viewpoints generally have moderate to high sensitivity, while most public viewpoints are less sensitive unless they are key locations such as lookouts or town centres. Scenic quality is assessed using criteria such as landforms, vegetation, water features, and cultural or human elements, following the DPHI guidelines.

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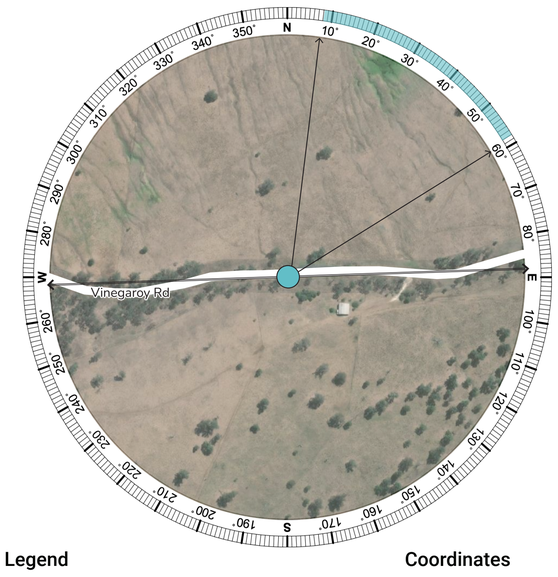
### Visual Impact Rating
The overall visual impact rating is determined by combining the magnitude and sensitivity ratings using the DPHI Visual Impact Matrix.

## Visual Impact Matrix

| Magnitude \ Sensitivity | High | Moderate | Low | Very Low |
|---|---|---|---|---|
| Very High 37+ Cells | High | High | Moderate | Moderate |
| High 26-36 Cells | High | Moderate | Moderate | Low |
| Moderate 15-25 Cells | Moderate | Moderate | Low | Low |
| Low 8-14 Cells | Moderate | Low | Low | Very Low |
| Very Low 1-7 Cells | Low | Low | Very Low | Very Low |

## Location




**Legend**

Extent of Potential Visibility to Mod-3 Layout

Extent of Panorama

**Coordinates**

31°51'26.08"S
149° 46'11.26"E

## Comparison Assessment

| Approved Layout | Mod-3 Layout |
|---|---|
| **Sensitivity Rating** | |
| **Low** | **Low** |

The viewpoint sensitivity is rated **Low** due to the combination of **Low Sensitivity** and **Low Scenic Quality**. **No change** is recorded between the approved layout and Mod-3 layout as the viewpoint has not changed.

| Magnitude Rating | |
|---|---|
| **Low (14 Cells)** | **Low (14 Cells)** |

The Mod-3 layout results in the same magnitude as the approved layout, with 14 cells occupied. Both layouts fall within the **Low** magnitude rating range.

***Note: Some cells with visible turbines are not counted as the turbines are located outside of the study area**

| Visual Impact Rating | |
|---|---|
| **Low** | **Low** |

The Mod-3 layout has the same number of cell count as the approved layout and both layouts result in a **Low** Visual Impact rating.

## Photomontage Comparison

### Approved Layout - No cell count overlay

**Max Blade Tip Height:** 215 m **WTGs Layout:** 185 turbines


W 280° 290° 300° 310° 320° 330° 340° 350° N 10° 20° 30° 40° 50° 60° 70° 80°

### Mod 3 Layout - No cell count overlay

**Max Blade Tip Height:** 215 m **WTGs Layout:** 173 turbines


W 280° 290° 300° 310° 320° 330° 340° 350° N 10° 20° 30° 40° 50° 60° 70° 80°

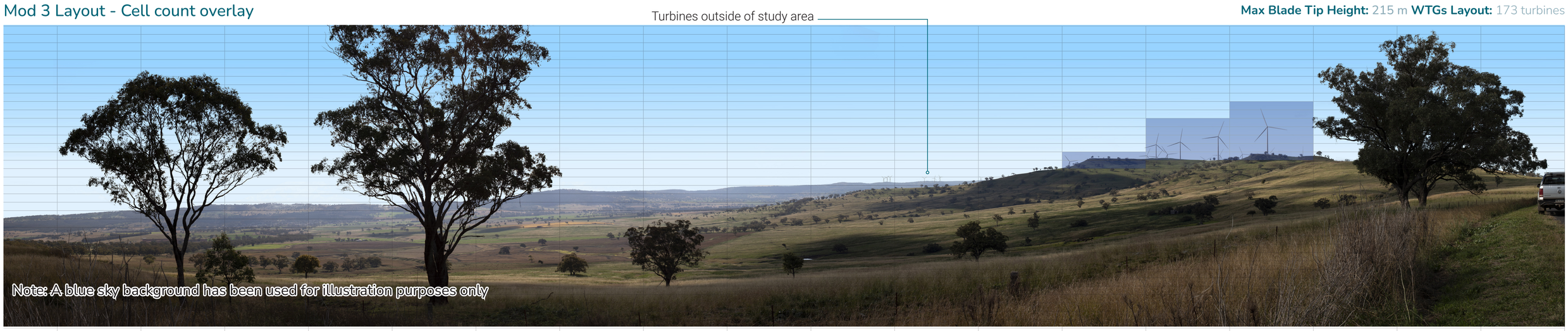
### Approved Layout - Cell count overlay

**Max Blade Tip Height:** 215 m **WTGs Layout:** 185 turbines


W 280° 290° 300° 310° 320° 330° 340° 350° N 10° 20° 30° 40° 50° 60° 70° 80°

### Mod 3 Layout - Cell count overlay

**Max Blade Tip Height:** 215 m **WTGs Layout:** 173 turbines




W 280° 290° 300° 310° 320° 330° 340° 350° N 10° 20° 30° 40° 50° 60° 70° 80°

# Vinegaroy Road/Cunningham Street (PM07)

## Comparison Study - Approved Project (185 WTGs) vs Mod-3 Project (173 WTGs)

moir STUDIO

## Methodology

### Magnitude
The visual magnitude is calculated by assessing how much of a 180° field of view the project occupies. The view is divided into a grid of 1° × 10° cells, and the number of cells occupied by the project is counted (see photomontage with cell-count overlay). The total number of occupied cells determines the magnitude rating; for example, occupying 37 or more cells results in a very high magnitude rating.

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### Sensitivity
Sensitivity is determined by the scenic quality of a viewpoint and how visually sensitive the location is. Private viewpoints generally have moderate to high sensitivity, while most public viewpoints are less sensitive unless they are key locations such as lookouts or town centres. Scenic quality is assessed using criteria such as landforms, vegetation, water features, and cultural or human elements, following the DPHI guidelines.

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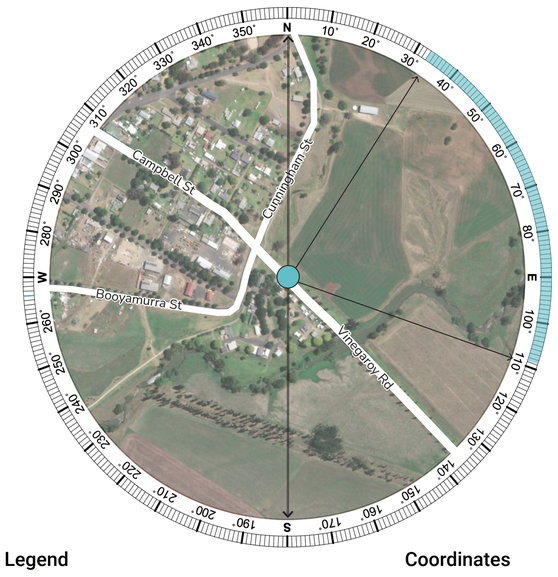
### Visual Impact Rating
The overall visual impact rating is determined by combining the magnitude and sensitivity ratings using the DPHI Visual Impact Matrix.

## Visual Impact Matrix

| Magnitude | Sensitivity: High | Moderate | Low | Very Low |
|---|---|---|---|---|
| Very High 37+ Cells | High | High | Moderate | Moderate |
| High 26-36 Cells | High | Moderate | Moderate | Low |
| Moderate 15-25 Cells | Moderate | Moderate | Low | Low |
| Low 8-14 Cells | Moderate | Low | Low | Very Low |
| Very Low 1-7 Cells | Low | Low | Very Low | Very Low |

## Location




**Legend**

Extent of Potential Visibility to Mod-3 Layout

Extent of Panorama

**Coordinates**

31°49'32.59"S
149°43'28.25"E

## Comparison Assessment

| Approved Layout | Mod-3 Layout |
|---|---|
| **Sensitivity Rating** | |
| **Low** | **Low** |

The viewpoint sensitivity is rated **Low** due to the combination of **Low Sensitivity** and **Low Scenic Quality**. **No change** is recorded between the approved layout and Mod-3 layout as the viewpoint has not changed.

| Magnitude Rating | |
|---|---|
| **Low (11 Cells)** | **Low (10 Cells)** |

The Mod-3 layout results in a lower magnitude than the approved layout, with one fewer cell occupied. However, despite this reduction, both layouts fall within the **Low** magnitude rating range.

***Note: Some cells with visible turbines are not counted as the turbines are located outside of the study area**

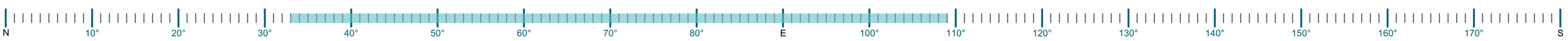
| Visual Impact Rating | |
|---|---|
| **Low** | **Low** |

The Mod-3 layout has a reduced cell count; however, both layouts result in a **Low** Visual Impact rating.

## Photomontage Comparison

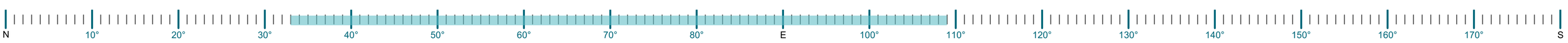
### Approved Layout - No cell count overlay

**Max Blade Tip Height:** 215 m **WTGs Layout:** 185 turbines

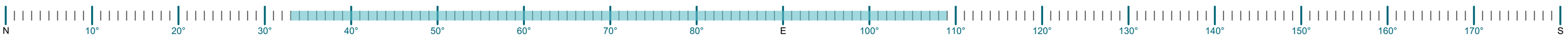

### Mod 3 Layout - No cell count overlay

**Max Blade Tip Height:** 215 m **WTGs Layout:** 173 turbines

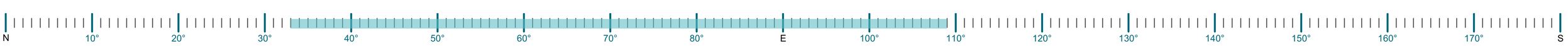

### Approved Layout - Cell count overlay

**Max Blade Tip Height:** 215 m **WTGs Layout:** 185 turbines


### Mod 3 Layout - Cell count overlay

**Max Blade Tip Height:** 215 m **WTGs Layout:** 173 turbines

# State Forest Road (PM09)

## Comparison Study - Approved Project (185 WTGs) vs Mod-3 Project (173 WTGs)

moir STUDIO

## Methodology

### Magnitude
The visual magnitude is calculated by assessing how much of a 180° field of view the project occupies. The view is divided into a grid of 1° × 10° cells, and the number of cells occupied by the project is counted (see photomontage with cell-count overlay). The total number of occupied cells determines the magnitude rating; for example, occupying 37 or more cells results in a very high magnitude rating.

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### Sensitivity
Sensitivity is determined by the scenic quality of a viewpoint and how visually sensitive the location is. Private viewpoints generally have moderate to high sensitivity, while most public viewpoints are less sensitive unless they are key locations such as lookouts or town centres. Scenic quality is assessed using criteria such as landforms, vegetation, water features, and cultural or human elements, following the DPHI guidelines.

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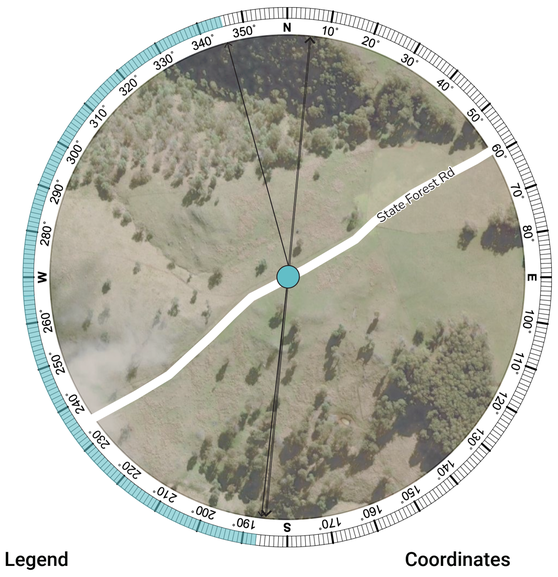
### Visual Impact Rating
The overall visual impact rating is determined by combining the magnitude and sensitivity ratings using the DPHI Visual Impact Matrix.

## Visual Impact Matrix

| Magnitude | Sensitivity: High | Moderate | Low | Very Low |
|---|---|---|---|---|
| Very High 37+ Cells | High | High | Moderate | Moderate |
| High 26-36 Cells | High | Moderate | Moderate | Low |
| Moderate 15-25 Cells | Moderate | Moderate | Low | Low |
| Low 8-14 Cells | Moderate | Low | Low | Very Low |
| Very Low 1-7 Cells | Low | Low | Very Low | Very Low |

## Location




**Legend**

Extent of Potential Visibility to Mod-3 Layout

Extent of Panorama

**Coordinates**

31°44'14.25"S
149°57'37.06"E

## Comparison Assessment

| Approved Layout | Mod-3 Layout |
|---|---|
| **Sensitivity Rating** | |
| **Very Low** | **Very Low** |

The viewpoint sensitivity is rated **Very Low** due to the combination of **Very Low Sensitivity** and **Low Scenic Quality**. **No change** is recorded between the approved layout and Mod-3 layout as the viewpoint has not changed.

| Magnitude Rating | |
|---|---|
| **Very High (103 Cells)** | **Very High (49 Cells)** |

The Mod-3 layout results in a lower magnitude than the approved layout, with 54 fewer cells occupied. However, despite this reduction, both layouts fall within the **Very High** magnitude rating range.

***Note: Some cells with visible turbines are not counted as the turbines are located outside of the study area**

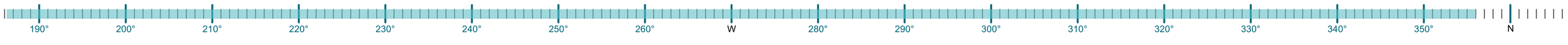
| Visual Impact Rating | |
|---|---|
| **Moderate** | **Moderate** |

The Mod-3 layout has a reduced cell count; however, both layouts result in a **Moderate** Visual Impact rating.

## Photomontage Comparison

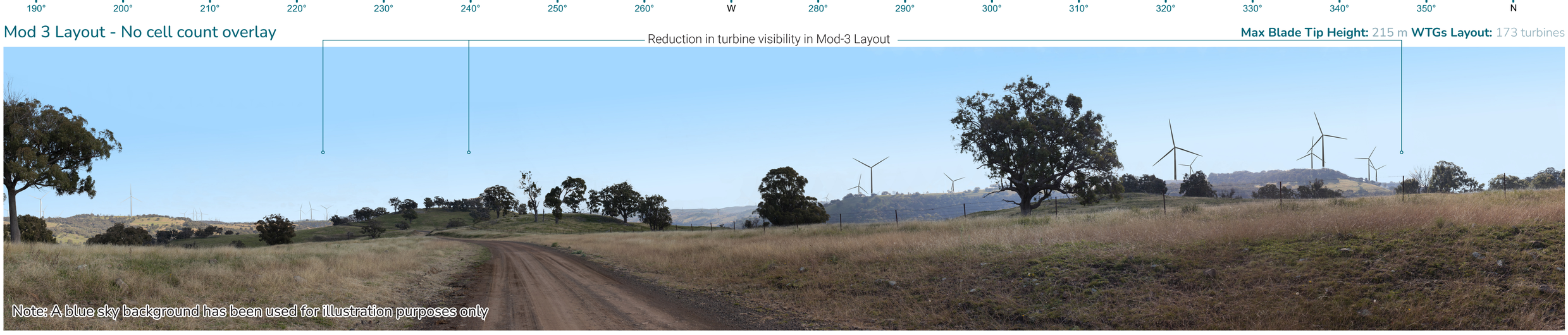
### Approved Layout - No cell count overlay

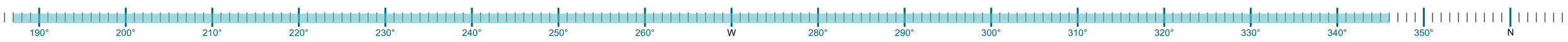
**Max Blade Tip Height:** 215 m **WTGs Layout:** 185 turbines


### Mod 3 Layout - No cell count overlay

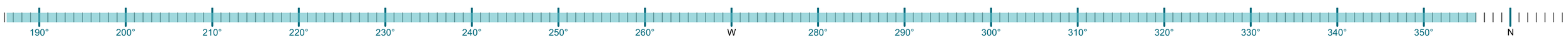
**Max Blade Tip Height:** 215 m **WTGs Layout:** 173 turbines



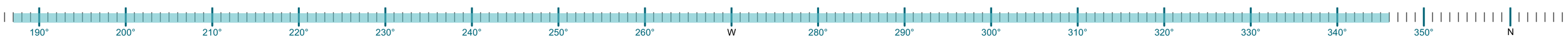

### Approved Layout - Cell count overlay

**Max Blade Tip Height:** 215 m **WTGs Layout:** 185 turbines


### Mod 3 Layout - Cell count overlay

**Max Blade Tip Height:** 215 m **WTGs Layout:** 173 turbines

# Pinnacle Lookout (PM12)

## Comparison Study - Approved Project (185 WTGs) vs Mod-3 Project (173 WTGs)

moir STUDIO

## Methodology

### Magnitude
The visual magnitude is calculated by assessing how much of a 180° field of view the project occupies. The view is divided into a grid of 1° × 10° cells, and the number of cells occupied by the project is counted (see photomontage with cell-count overlay). The total number of occupied cells determines the magnitude rating; for example, occupying 37 or more cells results in a very high magnitude rating.

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### Sensitivity
Sensitivity is determined by the scenic quality of a viewpoint and how visually sensitive the location is. Private viewpoints generally have moderate to high sensitivity, while most public viewpoints are less sensitive unless they are key locations such as lookouts or town centres. Scenic quality is assessed using criteria such as landforms, vegetation, water features, and cultural or human elements, following the DPHI guidelines.

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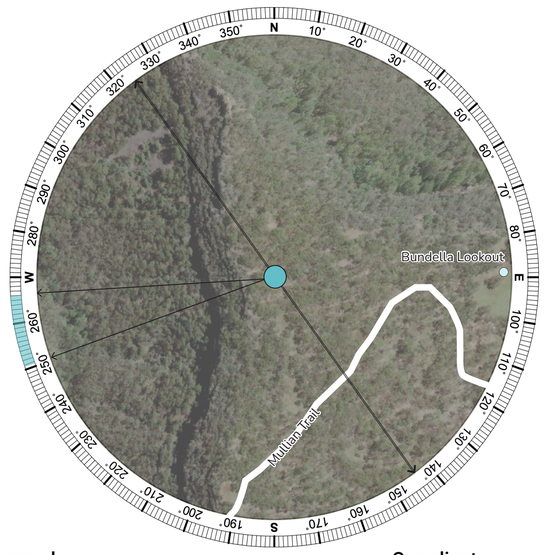
### Visual Impact Rating
The overall visual impact rating is determined by combining the magnitude and sensitivity ratings using the DPHI Visual Impact Matrix.

## Visual Impact Matrix

| Magnitude \ Sensitivity | High | Moderate | Low | Very Low |
|---|---|---|---|---|
| Very High 37+ Cells | High | High | Moderate | Moderate |
| High 26-36 Cells | High | Moderate | Moderate | Low |
| Moderate 15-25 Cells | Moderate | Moderate | Low | Low |
| Low 8-14 Cells | Moderate | Low | Low | Very Low |
| Very Low 1-7 Cells | Low | Low | Very Low | Very Low |

## Location




**Legend**

Extent of Potential Visibility to Mod-3 Layout

Extent of Panorama

**Coordinates**

31°41'40.18"S
150° 0'44.45"E

## Comparison Assessment

| Approved Layout | Mod-3 Layout |
|---|---|
| **Sensitivity Rating** | |
| **High** | **High** |

The viewpoint sensitivity is rated **High** due to the combination of **Moderate Sensitivity** and **High Scenic Quality**. **No change** is recorded between the approved layout and Mod-3 layout as the viewpoint has not changed.

| Magnitude Rating | |
|---|---|
| **Very Low (0 Cells)** | **Very Low (0 Cells)** |

Both layouts have 0 cell count in magnitude as the turbines are all located outside of study area. Both layouts fall within the **Very Low** magnitude rating range.

***Note: Some cells with visible turbines are not counted as the turbines are located outside of the study area**

| Visual Impact Rating | |
|---|---|
| **Low** | **Low** |

Both layouts result in a **Low** Visual Impact rating.

## Photomontage Comparison

### Approved Layout - No cell count overlay

**Max Blade Tip Height:** 215 m **WTGs Layout:** 185 turbines


150° 160° 170° S 190° 200° 210° 220° 230° 240° 250° 260° W 280° 290° 300° 310° 320°

### Mod 3 Layout - No cell count overlay

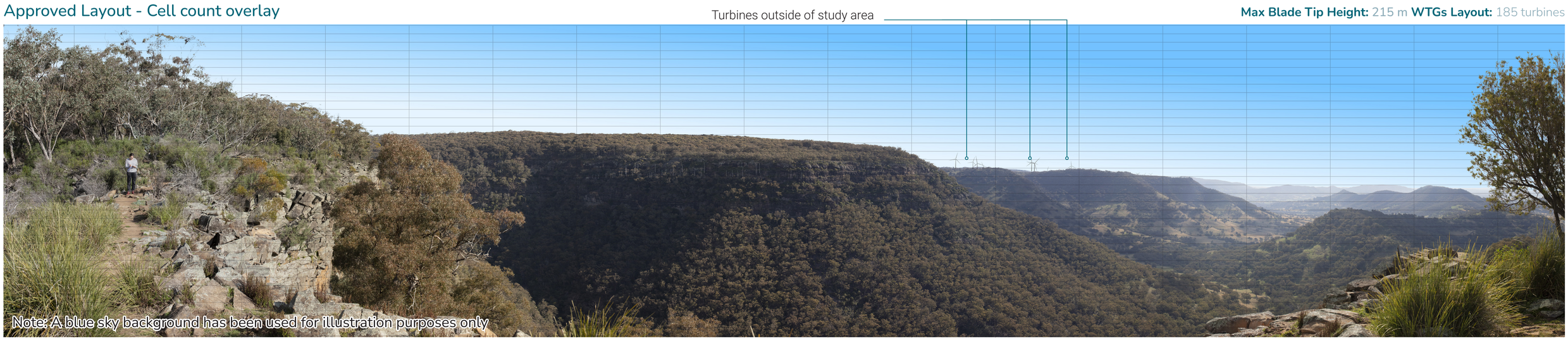
**Max Blade Tip Height:** 215 m **WTGs Layout:** 173 turbines


150° 160° 170° S 190° 200° 210° 220° 230° 240° 250° 260° W 280° 290° 300° 310° 320°

### Approved Layout - Cell count overlay

Turbines outside of study area

**Max Blade Tip Height:** 215 m **WTGs Layout:** 185 turbines

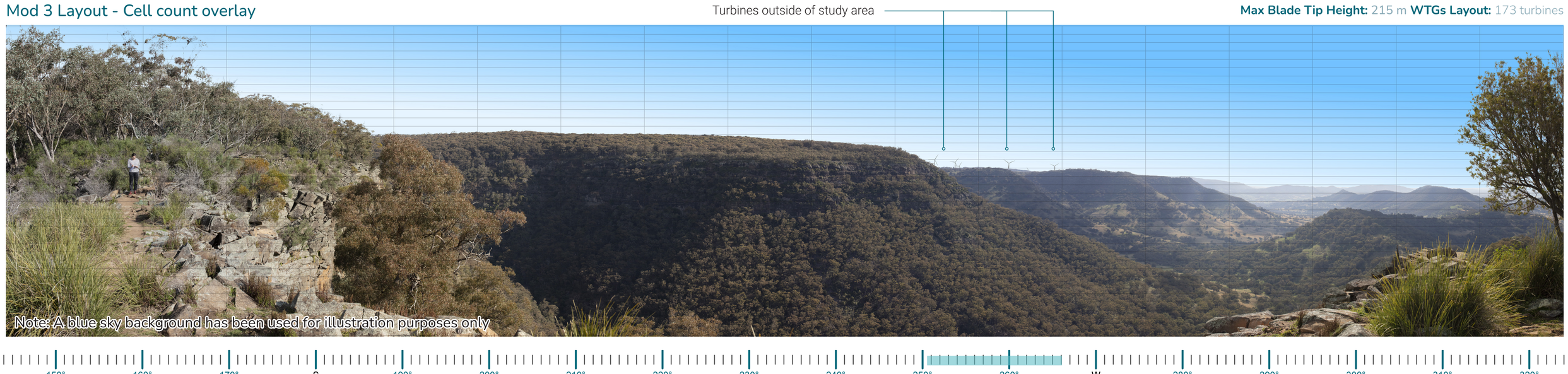



150° 160° 170° S 190° 200° 210° 220° 230° 240° 250° 260° W 280° 290° 300° 310° 320°

### Mod 3 Layout - Cell count overlay

Turbines outside of study area

**Max Blade Tip Height:** 215 m **WTGs Layout:** 173 turbines




150° 160° 170° S 190° 200° 210° 220° 230° 240° 250° 260° W 280° 290° 300° 310° 320°