

APPENDIX Q: VISUAL SIMULATIONS

Existing Conditions



Project Simulation Option 1
244 WTG



Project Simulation Option 2
150 WTG



Horse Heaven Wind Project



Figure 1
Representative Viewpoint 1
Existing Conditions and Project Simulations

BENTON COUNTY, WA

-  Viewpoint Location and Photo Direction
-  Project Lease Boundary
-  Proposed Turbine Location

View direction (deg):	244
Horizontal field of view (deg):.....	75
Vertical field of view (deg):.....	20
Max. WTGs within field of view:...	244 / 150
Max. Visible WTGs at tip height:..	199 / 137
Max. Visible WTGs at hub height:	148 / 107
Closest WTG (mi):.....	5.2 / 5.8
Furthest WTG (mi):.....	26.8 / 26.5
Closest Solar Array (mi):.....	No view
Closest Transmission Line (mi):.....	No view

To approximate how the project will appear to a viewer in the natural setting, this sheet should be printed at 11 x 17 inches, full size with no scaling, and viewed at 6 inches from the eye. If viewed on a computer monitor, the document should be scaled at 100% and viewed at 6 inches from the eye.

NOT FOR CONSTRUCTION



Existing Conditions



Project Simulation Option 1
244 WTG



Project Simulation Option 2
150 WTG



Horse Heaven Wind Project



Figure 2
Representative Viewpoint 2a
Existing Conditions
and Project Simulations

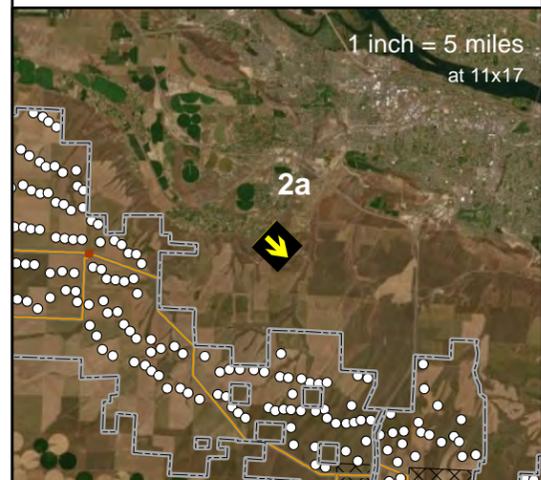
BENTON COUNTY, WA

-  Viewpoint Location and Photo Direction
-  Project Lease Boundary
-  Proposed Turbine Location
-  Proposed Substation
-  Proposed Transmission Line
-  Solar Siting Area

View direction (deg):	132
Horizontal field of view (deg):.....	57
Vertical field of view (deg):.....	15
Max. WTGs within field of view:...	75 / 38
Max. Visible WTGs at tip height:..	56 / 29
Max. Visible WTGs at hub height:	50 / 24
Closest WTG (mi):.....	3.9 / 4.8
Furthest WTG (mi):.....	13.4 / 13.0
Closest Solar Array (mi):.....	No view
Closest Transmission Line (mi):.....	No view

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Existing Conditions



Project Simulation Option 1
244 WTG



Project Simulation Option 2
150 WTG



Horse Heaven Wind Project



Figure 3
Representative Viewpoint 2b
Existing Conditions
and Project Simulations

BENTON COUNTY, WA

- Viewpoint Location and Photo Direction
- Project Lease Boundary
- Proposed Turbine Location
- Proposed Substation
- Proposed Transmission Line
- Solar Siting Area

View direction (deg):	189
Horizontal field of view (deg):.....	57
Vertical field of view (deg):.....	15
Max. WTGs within field of view:...	37 / 19
Max. Visible WTGs at tip height:..	36 / 19
Max. Visible WTGs at hub height:	30 / 17
Closest WTG (mi):.....	3.0 / 3.5
Furthest WTG (mi):.....	6.2 / 5.9
Closest Solar Array (mi):.....	No view
Closest Transmission Line (mi):.....	No view

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Existing Conditions



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244 WTG



Project Simulation Option 2
150 WTG



Horse Heaven Wind Project



Figure 4
Representative Viewpoint 2c
Existing Conditions
and Project Simulations

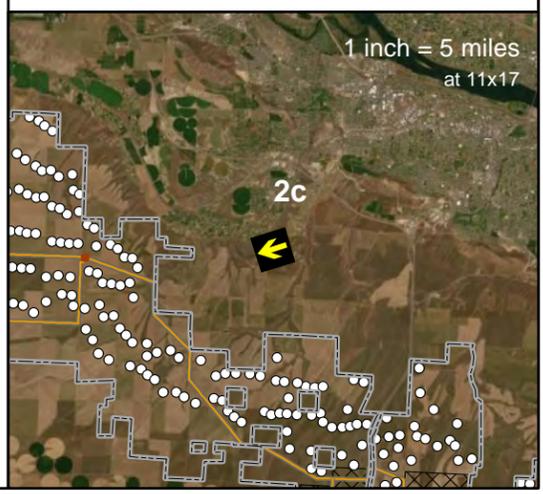
BENTON COUNTY, WA

-  Viewpoint Location and Photo Direction
-  Project Lease Boundary
-  Proposed Turbine Location
-  Proposed Substation
-  Proposed Transmission Line
-  Solar Siting Area

View direction (deg):	251
Horizontal field of view (deg):.....	56
Vertical field of view (deg):.....	15
Max. WTGs within field of view:...	85 / 60
Max. Visible WTGs at tip height:..	46 / 39
Max. Visible WTGs at hub height:..	24 / 21
Closest WTG (mi):.....	3.7 / 3.7
Furthest WTG (mi):.....	10.8 / 10.8
Closest Solar Array (mi):.....	No view
Closest Transmission Line (mi):.....	3.4

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Existing Conditions



Project Simulation Option 1
244 WTG



Project Simulation Option 2
150 WTG



Horse Heaven Wind Project



Figure 5
Representative Viewpoint 3
Existing Conditions
and Project Simulations

BENTON COUNTY, WA

-  Viewpoint Location and Photo Direction
-  Project Lease Boundary
-  Proposed Turbine Location
-  Proposed Substation
-  Proposed Transmission Line
-  Solar Siting Area

View direction (deg):	128
Horizontal field of view (deg):.....	56
Vertical field of view (deg):.....	15
Max. WTGs within field of view:...	244 / 150
Max. Visible WTGs at tip height:..	239 / 150
Max. Visible WTGs at hub height:	219 / 139
Closest WTG (mi):.....	2.5 / 2.8
Furthest WTG (mi):.....	28.1 / 27.6
Closest Solar Array (mi):.....	2.1
Closest Transmission Line (mi):.....	4.2

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Existing Conditions



Project Simulation Option 1
244 WTG



Project Simulation Option 2
150 WTG



Horse Heaven Wind Project



Figure 6
Representative Viewpoint 4a
Existing Conditions
and Project Simulations

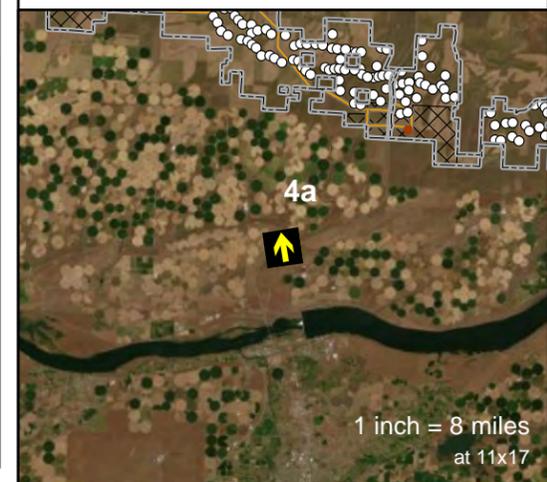
BENTON COUNTY, WA

-  Viewpoint Location and Photo Direction
-  Project Lease Boundary
-  Proposed Turbine Location
-  Proposed Substation
-  Proposed Transmission Line
-  Solar Siting Area

View direction (deg):	350
Horizontal field of view (deg):.....	57
Vertical field of view (deg):.....	15
Max. WTGs within field of view:...	163 / 110
Max. Visible WTGs at tip height:..	51 / 40
Max. Visible WTGs at hub height: 34 / 26	
Closest WTG (mi):.....	7.3 / 7.3
Furthest WTG (mi):.....	19.6 / 19.4
Closest Solar Array (mi):.....	No view
Closest Transmission Line (mi):.....	6.5

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Existing Conditions



Project Simulation Option 1
244 WTG



Project Simulation Option 2
150 WTG



**Horse Heaven
Wind Project**



**Figure 7
Representative Viewpoint 4b
Existing Conditions
and Project Simulations**

BENTON COUNTY, WA

-  Viewpoint Location and Photo Direction
-  Project Lease Boundary
-  Proposed Turbine Location
-  Proposed Substation
-  Proposed Transmission Line
-  Solar Siting Area

View direction (deg):	46
Horizontal field of view (deg):.....	57
Vertical field of view (deg):.....	15
Max. WTGs within field of view:...	85 / 42
Max. Visible WTGs at tip height:..	66 / 37
Max. Visible WTGs at hub height:	58 / 33
Closest WTG (mi):.....	7.0 / 7.3
Furthest WTG (mi):.....	16.2 / 15.6
Closest Solar Array (mi):.....	6.0
Closest Transmission Line (mi):.....	6.5

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Existing Conditions



Project Simulation Option 1
244 WTG



Project Simulation Option 2
150 WTG



Horse Heaven Wind Project



Figure 8 Representative Viewpoint 5 Existing Conditions and Project Simulations

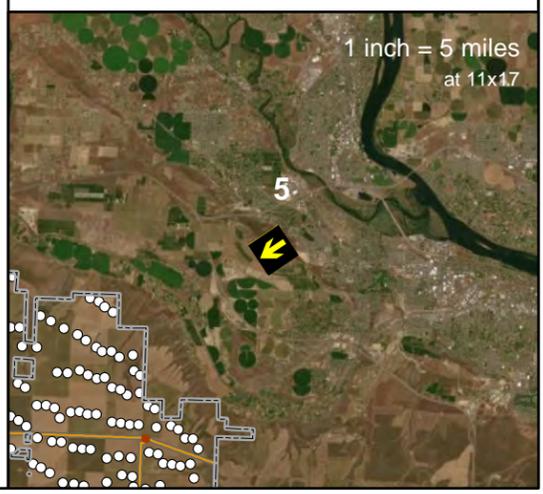
BENTON COUNTY, WA

-  Viewpoint Location and Photo Direction
-  Project Lease Boundary
-  Proposed Turbine Location
-  Proposed Substation
-  Proposed Transmission Line

View direction (deg):	236
Horizontal field of view (deg):.....	58
Vertical field of view (deg):.....	15
Max. WTGs within field of view:...	101 / 76
Max. Visible WTGs at tip height:..	101 / 76
Max. Visible WTGs at hub height:	101 / 76
Closest WTG (mi):.....	4.7 / 4.7
Furthest WTG (mi):.....	9.9 / 9.8
Closest Solar Array (mi):.....	No view
Closest Transmission Line (mi):.....	No view

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Project Simulation Option 1
244 WTG



Project Simulation Option 2
150 WTG



**Horse Heaven
Wind Project**



**Figure 9
Representative Viewpoint 6
Existing Conditions
and Project Simulations**

BENTON COUNTY, WA

- Viewpoint Location and Photo Direction
- Project Lease Boundary
- Proposed Turbine Location
- Proposed Substation
- Proposed Transmission Line
- Solar Siting Area

View direction (deg):	360
Horizontal field of view (deg):.....	60
Vertical field of view (deg):.....	15
Max. WTGs within field of view:...	41 / 17
Max. Visible WTGs at tip height:..	37 / 17
Max. Visible WTGs at hub height:	29 / 17
Closest WTG (mi):.....	1.7 / 1.8
Furthest WTG (mi):.....	5.7 / 5.0
Closest Solar Array (mi):.....	0.6
Closest Transmission Line (mi):.....	1.2

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Existing Conditions



Project Simulation Option 1
244 WTG



Project Simulation Option 2
150 WTG



Horse Heaven Wind Project



Figure 10
Representative Viewpoint 7
Existing Conditions
and Project Simulations

BENTON COUNTY, WA

-  Viewpoint Location and Photo Direction
-  Project Lease Boundary
-  Proposed Turbine Location
-  Proposed Substation
-  Proposed Transmission Line
-  Solar Siting Area

View direction (deg):	60
Horizontal field of view (deg):.....	58
Vertical field of view (deg):.....	15
Max. WTGs within field of view:...	122 / 90
Max. Visible WTGs at tip height:..	118 / 87
Max. Visible WTGs at hub height: 110 /	85
Closest WTG (mi):.....	5.8 / 5.8
Furthest WTG (mi):.....	11.9 / 11.8
Closest Solar Array (mi):.....	3.1
Closest Transmission Line (mi):.....	2.2

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