Horse Heaven Wind Farm	Updated EFSEC Application for Site Certification
APPENDIX Q: VISUAL SIMULATION	NS (REVISED)



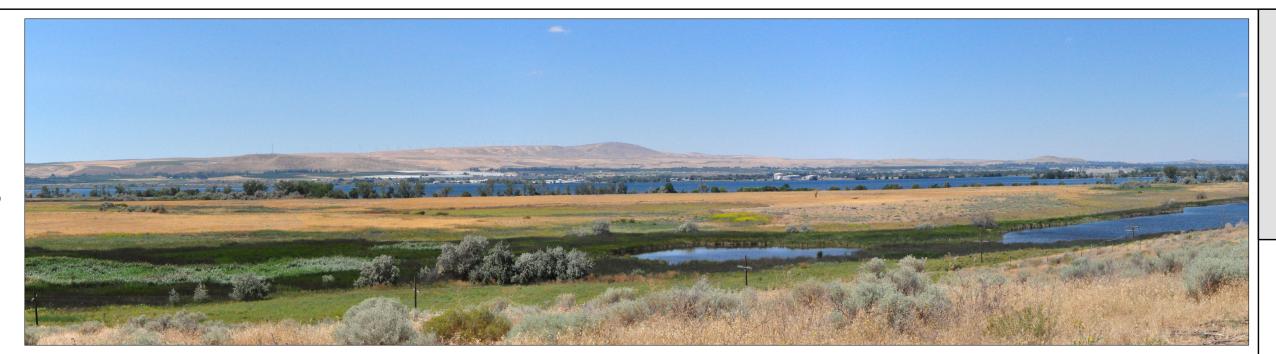








Figure 1 **Representative Viewpoint 1**

Existing Conditions and Project Simulations

BENTON COUNTY, WA

Viewpoint Location and Photo Direction Project Lease Boundary Proposed Turbine Location

Proposed Substation/BESS Proposed Transmission Line

Solar Siting Area

View direction (deg): Horizontal field of view (deg):.... Vertical field of view (deg):.... 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 Closest Solar Array (mi):..... No view Closest Transmission Line (mi):..... No view Closest Substation / BESS (mi):..

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



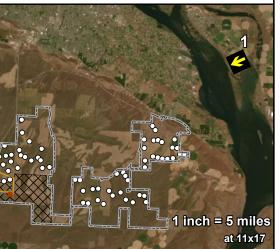












Figure 2 **Representative Viewpoint 2a**

Existing Conditions and Project Simulations

BENTON COUNTY, WA

Viewpoint Location and Photo Direction Project Lease Boundary Proposed Turbine Location

Proposed Substation/BESS Proposed Transmission Line

Solar Siting Area

View direction (deg): Horizontal field of view (deg):.... 57 Vertical field of view (deg):.... 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 Closest Solar Array (mi):..... No view Closest Transmission Line (mi):..... No view Closest Substation / BESS (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 8 inches from the eye. If viewed on a computer monitor, the document should be scaled at 100% and viewed at 8 inches from the















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/BESS

Proposed Transmission Line

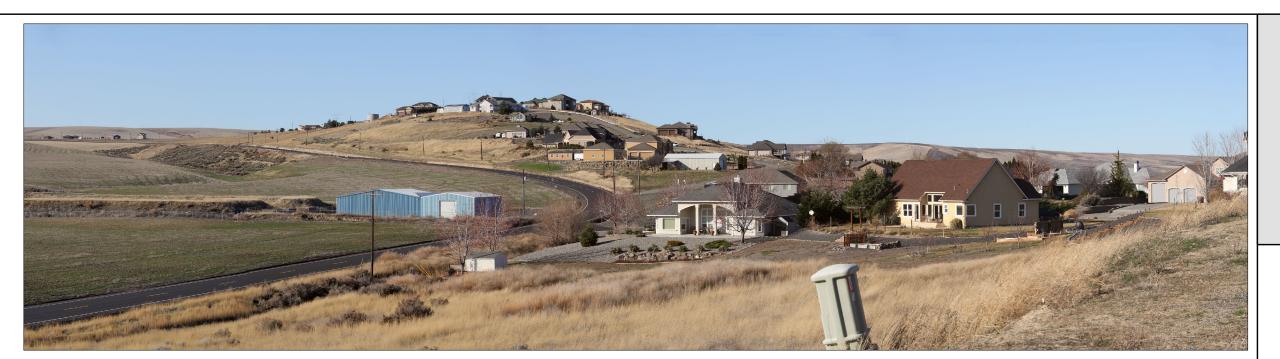
Solar Siting Area

View direction (deg): Horizontal field of view (deg):..... 57 Vertical field of view (deg):.... 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 / 3.5 Furthest WTG (mi):.... 6.2 / 5.9 Closest Solar Array (mi):.... No view Closest Transmission Line (mi):..... No view Closest Substation / BESS (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 8 inches from the eye. If viewed on a computer monitor, the document should be scaled at 100% and viewed at 8 inches from the











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 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
Closest Substation / BESS (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 8 inches from the eye. If viewed on a computer monitor, the document should be scaled at 100% and viewed at 8 inches from the











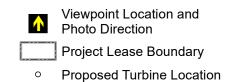
Horse Heaven Wind Project



Figure 5 Representative Viewpoint 3

Existing Conditions and Project Simulations

BENTON COUNTY, WA



Proposed Substation/BESS Proposed Transmission Line

Solar Siting Area

View direction (deg): 12
Horizontal field of view (deg):5
Vertical field of view (deg):1
Max. WTGs within field of view: 244 / 15
Max. Visible WTGs at tip height: 239 / 15
Max. Visible WTGs at hub height: 219 / 13
Closest WTG (mi):
Furthest WTG (mi): 28.1 / 27.
Closest Solar Array (mi):
Closest Transmission Line (mi): 4.
Closest Substation / BESS (mi):Not in fram

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 8 inches from the eye. If viewed on a computer monitor, the document should be scaled at 100% and viewed at 8 inches from the















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/BESS Proposed Transmission Line

Solar Siting Area

View direction (deg): Horizontal field of view (deg):.... Max. Visible WTGs at tip height:.. 51 / 40 Max. Visible WTGs at hub height: 34 / 26 Furthest WTG (mi):..... 19.6 / 19.4 Closest Solar Array (mi):.....Not in frame Closest Transmission Line (mi):..... Closest Substation / BESS (mi):..Not in frame

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 8 inches from the eye. If viewed on a computer monitor, the document should be scaled at 100% and viewed at 8 inches from the















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/BESS Proposed Transmission Line

Solar Siting Area

View direction (deg): 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 / 7.3 Furthest WTG (mi):...... 16.2 / 15.6 Closest Solar Array (mi):.... 6.0 Closest Transmission Line (mi):..... 6.5 Closest Substation / BESS (mi):... 7.3

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 8 inches from the eye. If viewed on a computer monitor, the document should be scaled at 100% and viewed at 8 inches from the













Figure 8 **Representative Viewpoint 5**

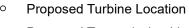
Existing Conditions and Project Simulations

BENTON COUNTY, WA

Viewpoint Location and Photo Direction



Project Lease Boundary



Proposed Transmission Line



Solar Siting Area

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
Closest Substation / BESS (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 8 inches from the eye. If viewed on a computer monitor, the document should be scaled at 100% and viewed at 8 inches from the











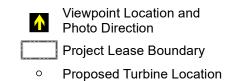
Horse Heaven Wind Project

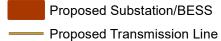


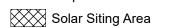
Figure 9 Representative Viewpoint 6

Existing Conditions and Project Simulations

BENTON COUNTY, WA







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
Closest Solar Array (mi):		0.6
Closest Transmission Line (mi):		1.2
Closest Substation / BESS (mi): Not	in fra	me

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 8 inches from the eye. If viewed on a computer monitor, the document should be scaled at 100% and viewed at 8 inches from the





Conditions







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/BESS Proposed Transmission Line

Solar Siting Area

View direction (deg): Horizontal field of view (deg):.... 58 Vertical field of view (deg):.... 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 Closest Substation / BESS (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 8 inches from the eye. If viewed on a computer monitor, the document should be scaled at 100% and viewed at 8 inches from the











Horse Heaven Wind Project



Figure 11 **Representative Viewpoint 8a**

Existing Conditions and Project Simulations

BENTON COUNTY, WA

Viewpoint Location and Photo Direction Project Lease Boundary Proposed Turbine Location

Proposed Substation/BESS Proposed Transmission Line

Solar Siting Area

View direction (deg): Horizontal field of view (deg):..... Vertical field of view (deg):.... Max. WTGs within field of view:... 43 / 20 Max. Visible WTGs at tip height:.. 40 / 19 37 / 15 Max. Visible WTGs at hub height: Closest WTG (mi):.... 3.6 / 5.4 Furthest WTG (mi):.... 7.4 / 7.3 Closest Solar Array (mi):.... No view Closest Transmission Line (mi):..... No view Closest Substation / BESS (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 8 inches from the eye. If viewed on a computer monitor, the document should be scaled at 100% and viewed at 8 inches from the







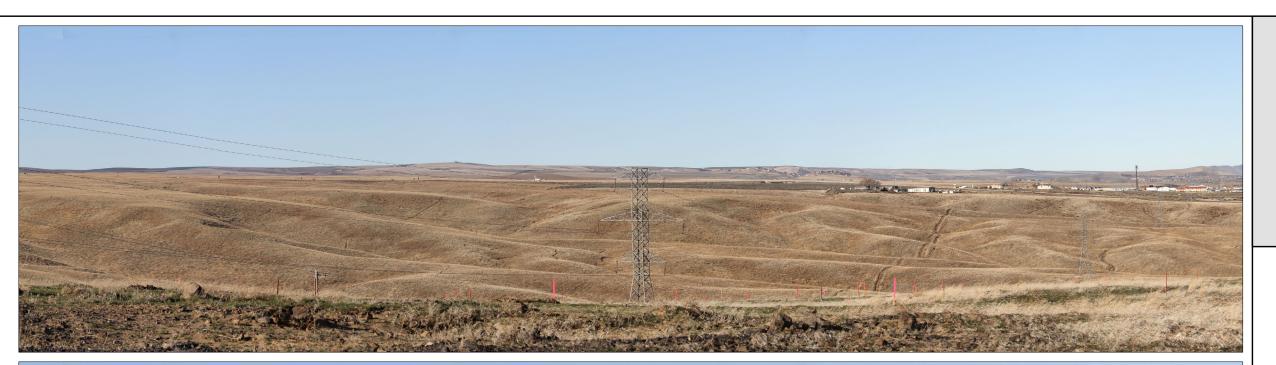








Figure 12 **Representative Viewpoint 8b**

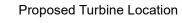
Existing Conditions and Project Simulations

BENTON COUNTY, WA

Viewpoint Location and Photo Direction



Project Lease Boundary







View direction (deg):	258
Horizontal field of view (deg):	57
Vertical field of view (deg):	15
Max. WTGs within field of view:	153 / 105
Max. Visible WTGs at tip height:	137 / 101
Max. Visible WTGs at hub height:	102 / 83
Closest WTG (mi):	5.9 / 6.1
Furthest WTG (mi):	16.8 / 16.6
Closest Solar Array (mi):	No view
Closest Transmission Line (mi):	No view
Closest Substation / BESS (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 8 inches from the eye. If viewed on a computer monitor, the document should be scaled at 100% and viewed at 8 inches from the











Horse Heaven Wind Project



Figure 13 **Representative Viewpoint 9**

Existing Conditions and Project Simulations

BENTON COUNTY, WA

Viewpoint Location and Photo Direction Project Lease Boundary Proposed Turbine Location

Proposed Substation/BESS

 Proposed Transmission Line Solar Siting Area

View direction (deg): Horizontal field of view (deg):.... Max. Visible WTGs at tip height:.. 5/5 Max. Visible WTGs at hub height: Closest WTG (mi):.... 2.7 / 2.7 Furthest WTG (mi):.... 9.7 / 9.6 Closest Solar Array (mi):..... Closest Transmission Line (mi):..... No view No view Closest Substation / BESS (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











Horse Heaven Wind Project



Figure 14 **Representative Viewpoint 10**

Existing Conditions and Project Simulations

BENTON COUNTY, WA

Viewpoint Location and Photo Direction Project Lease Boundary

Proposed Turbine Location

Proposed Substation/BESS Proposed Transmission Line

Solar Siting Area

View direction (deg): Horizontal field of view (deg):..... Vertical field of view (deg):..... Max. WTGs within field of view:... 79 / 59 Max. Visible WTGs at tip height:.. 15 / 15 Max. Visible WTGs at hub height: 9/7 Closest WTG (mi):.... 1.5 / 1.5 Furthest WTG (mi):.... 6.6 / 6.6 Closest Solar Array (mi):.... No view Closest Transmission Line (mi):..... No view Closest Substation / BESS (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











Horse Heaven Wind Project



Figure 15 **Representative Viewpoint 11**

Existing Conditions and Project Simulations

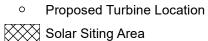
BENTON COUNTY, WA



Viewpoint Location and Photo Direction



Project Lease Boundary



Solar Siting Area

View direction (deg):	169
Horizontal field of view (deg):	73
Vertical field of view (deg):	19
Max. WTGs within field of view:	33 / 47
Max. Visible WTGs at tip height:	23 / 12
Max. Visible WTGs at hub height:	19 / 11
Closest WTG (mi):	2 / 2.5
Furthest WTG (mi):	6.6 / 6.6
Closest Solar Array (mi):	No view
Closest Transmission Line (mi):	No view
Closest Substation / BESS (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











Horse Heaven Wind Project



Figure 16 **Representative Viewpoint 12**

Existing Conditions and Project Simulations

BENTON COUNTY, WA

Viewpoint Location and Photo Direction Project Lease Boundary Proposed Turbine Location

Proposed Substation/BESS

 Proposed Transmission Line Solar Siting Area

View direction (deg): Horizontal field of view (deg):..... Vertical field of view (deg):.... Max. WTGs within field of view:... 57 / 40 Max. Visible WTGs at tip height:.. 53 / 40 52 / 37 Max. Visible WTGs at hub height: Closest WTG (mi):.... 2.5 / 2.5 Furthest WTG (mi):.... 8.7 / 8.6 Closest Solar Array (mi):.... Closest Transmission Line (mi):..... 0.2 Closest Substation / BESS (mi):... 0.5

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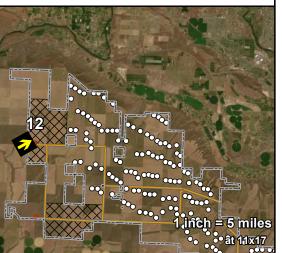










Figure 17 **Representative Viewpoint 13**

Existing Conditions and Project Simulations

BENTON COUNTY, WA

Viewpoint Location and Photo Direction Project Lease Boundary Proposed Turbine Location

Proposed Substation/BESS

 Proposed Transmission Line Solar Siting Area

View direction (deg): Horizontal field of view (deg):.... Vertical field of view (deg):.... Max. WTGs within field of view:... 73 / 54 Max. Visible WTGs at tip height:.. 69 / 52 Max. Visible WTGs at hub height: Closest WTG (mi):.... 1.1 / 1.1 Furthest WTG (mi):..... 7.3 / 7.1 Closest Solar Array (mi):.....Not in frame Closest Transmission Line (mi):..... Closest Substation / BESS (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



