Transmission & Interconnection Service System Studies

System planning studies or specific network impact studies performed for customers to determine network impacts are made publicly available subject to PSE’s CEII, Critical Energy Infrastructure Information policy.

The following summary provides a list of the studies associated with long-term transmission and interconnection requests. If you wish to receive a copy of any of the available studies, please mail or e-mail a request to:

Puget Sound Energy, Inc.
Manager Transmission Policy & Contracts
P.O. Box 97034 EST-06E  Bellevue, WA 98009-97034

Below is Puget Sound Energy’s list of publicly available studies

Transmission Studies


Network Integration Transmission System Impact Study OASIS No. 73840010 – BPA – Kittitas, WA Completed May 1, 2010


Draft Point-to-Point Transmission Facilities Study OASIS No. 71573205 – for 44 MW near Wild Horse Substation in Kittitas County, WA to MIDC. Completed November 29, 2007
Point-to-Point Transmission System Impact Study OASIS No. 71558832 – for 19 MW near Fredonia Substation in Skagit County, WA to the City of Seattle
Completed November 29, 2007

Network Integration Transmission System Impact Study OASIS No. 71570102 – BPA – Kittitas, WA
Completed February 29, 2008

Network Integration Transmission Facilities Study OASIS No. 71334185 – BPA – Orcas, WA
Completed February 29, 2008

Network Integration Transmission Facilities Study OASIS No. 71251894 – BPA – Blaine, WA
Completed September 10, 2007, Revised February 26, 2008, October 6, 2009

Network Integration Transmission Facilities Study OASIS No. 71251912 – BPA – Tanner Luhr Beach, WA
Completed July 31, 2007

Network Integration Transmission Facilities Study OASIS No. 71334185 – BPA - Orcas, WA
Completed July 16, 2007

Network Integration Transmission Facilities Study 350-500 MW from MIDC to PSEI OASIS No. 40425.
Completed June 1, 2007, updated July 24, 2007

Network Integration Transmission System Impact Study OASIS No. 71251894 – BPA - City of Blaine, WA
Completed May 30, 2007

Completed May 30, 2007

Network Integration Transmission Facilities Study OASIS No. 70704545– BPA- City of Sumas, WA
Completed May 15, 2007

Point-to-Point Transmission System Impact Study San Juan County, WA OASIS No. 71000957 & 70953776
Completed March 14, 2007

Point-to-Point Transmission System Impact Study Kittitas, WA OASIS No. 71000958 & 70953774
Completed March 14, 2007

Point-to-Point Transmission System Impact Study Blaine, WA OASIS No. 71000956 & 70953765
Completed March 14, 2007

Point-to-Point Transmission System Impact Study San Juan County, WA OASIS No. 71000957 & 70953776
Completed February 21, 2007

Point-to-Point Transmission System Impact Study Kittitas, WA OASIS No. 71000958 & 70953774
Completed February 22, 2007

Point-to-Point Transmission System Impact Study Blaine, WA OASIS No. 71000956 & 70953765
Completed January 19, 2006 and updated February 21, 2007

Point-to-Point Transmission Facilities Study 15 MW in Skagit County, WA OASIS No. 70852564
Completed March 21, 2007

Network Integration Transmission System Impact Study OASIS No. 70704545– BPA – City of Sumas, WA
Completed October 25, 2006

Point-to-Point Transmission System Impact Study 31 MW near Fredonia Substation in Skagit County, WA OASIS No. 70852564
Completed January 19, 2006 and updated November 16, 2006
Network Integration Transmission Facilities Re-Study OASIS N. 33763 150 MW from Fredrickson I
Completed August 27, 2004

Network Integration Transmission Facilities Study OASIS N. 33763 150 MW from Fredrickson I
Completed October 15, 2004

Facilities Study for 200 MW Point-to-Point Transmission Wind Ridge 230 kV Substation to MIDC and from MIDC-PSEI OASIS No. 26381
Completed October 5, 2004

Draft System Impact Study 185 MW Point-to-Point Transmission to MIDC and 300-500 MW Network Integration Transmission from MIDC-PSEI OASIS Nos. 29758 and 40425
Completed June 28, 2004

Point-to-Point Facilities Study for 182 MW Interconnection at Sagebrush 230 kV bus OASIS No. 26383 and 26384
Completed March 22, 2004

Network Integration Transmission Facilities Study OASIS N. 33763 150 MW from Fredrickson I at Fredrickson Bus
Completed August 27, 2004 and Updated October 13, 2004

Network Integration Transmission System Impact Study OASIS N. 33763 150 MW from Fredrickson I at Fredrickson Bus
Completed February 4, 2004

Draft Network Integration Transmission System Impact Study OASIS N. 33763 150 MW from Fredrickson I at Fredrickson Bus
Completed December 10, 2003

Facilities Study for 200 MW Point-to-Point Transmission Wind Ridge 230 kV Substation to MIDC and from MIDC-PSEI OASIS No. 26381
Completed October 6, 2003

Point-to-Point System Impact Study for 200 MW at Wind Ridge 230 kV Bus & 182 MW to PSE’s Sagebrush 230 kV Bus (OASIS Nos. 26381, 26382, 26383, 26384)
Completed September 5, 2003 & Updated October 29, 2003

Other Studies
Kachess Drought Relief Pumping Plant Line and Load Request System Impact Study
Completed April 28, 2015, Revised July 28, 2017

North Bend Line and Load Request System Impact Study
Completed January 31, 2014

North Bend Line and Load Request Feasibility Study
Completed April 28, 2015

Draft Transmission Capacity Analysis
Completed February 10, 2010

Total Simultaneous Transfer Study into the Puget Sound Energy Control Area
Completed July 8, 2004
Interconnection Studies


Large Generator Interconnection Feasibility Study for 171.6 MW of wind generation in Lewis and Thurston Counties, WA Queue Position No. 46. Completed June 20, 2016, Revised June 27, 2016.


Small Generator Interconnection Facilities Study for 6 MW of hydro generation in King County, WA Queue Position No. 34. Completed October 8, 2012, Revised October 31, 2012.


Large Generator Interconnection System Impact Study for 20 MW incremental increase in winter and 40 MW incremental increase in summer generation in Whatcom County, WA Queue Position No. 37. Completed October 19, 2012


Large Generator Interconnection Facilities Study for 8.3 MW capacity increase in King County, WA Queue Position No. 31. Completed May 7, 2012 and revised May 11, 2012.

Large Generator Interconnection System Impact Study for 30.4 MW generation in Skagit County, WA Queue Position No. 35. Completed January 6, 2012

Small Generator Interconnection System Impact Study for 6 MW of hydro generation in King County, WA Queue Position No. 34*. Completed December 16, 2011. (*corrected queue position)

Small Generator Interconnection System Impact Study for 6 MW of hydro generation in King County, WA Queue Position No. 33*. Completed December 16, 2011. (*corrected queue position)

Large Generator Interconnection System Impact Study for 8.3 MW capacity increase in King County, WA

Draft Large Generator Interconnection Feasibility Study for 232 MW generation in Skagit County, WA
Queue Position No. 30. Completed April 12, 2011

Small Generator Interconnection Feasibility Study for 5 MW of hydro generation in King County, WA

Small Generator Interconnection Feasibility Study for 5 MW of hydro generation in King County, WA
Queue Position No. 25. Completed September 22, 2010

Large Generator Interconnection Feasibility Study for 302 MW generation in Snohomish County, WA

Large Generator Interconnection Feasibility Study for 367 MW generation in Skagit County, WA
Queue Position No. 23. Completed July 12, 2010

Large Generator Interconnection Feasibility Study for 340 MW generation in Pierce County, WA

Large Generator Interconnection System Impact Study for 200 MW of wind generation in Wheatland County, MT

Large Generator Interconnection System Impact Re-Study for 190 MW of wind generation in Kittitas County, WA

Small Generator Interconnection Facilities Study for 600kW of biomass generation in Whatcom County, WA

Large Generator Interconnection Feasibility Study for 200 MW of wind generation in Wheatland County, MT

System Impact Study Re-Study for 52 MW of Wind Generation at PSE’s Wild Horse 230 kV Bus in Kittitas County, WA. Completed February 26, 2009


Large Generator Interconnection Facilities Study for 103.5 MW of wind generation in Kittitas County, WA Queue Position No. 13. Completed February 6, 2009 and revised June 23, 2009


Small Generator Interconnection System Impact Study Re-Study for 750 kW & 1,500 kW biomass generation in Skagit County, WA Queue Position No. 15. Completed October 22, 2008 & Revised January 26, 2009

Large Generator Interconnection System Impact Study Re-Study for 103.5 MW wind generation new PSE’s Wind Ridge Substation in Kittitas County, WA Queue Position No. 13. Completed October 17, 2008
Draft Small Generator Interconnection System Impact Study for 1,500 kW biomass generation in Skagit County, WA  Queue Position No. 15 (Study never finalized)  
Completed June 11, 2008

Draft Large Generator Interconnection System Impact Study for 103.5 MW wind generation new PSE’s Wind Ridge Substation in Kittitas County, WA  Queue Position No. 13.  
Completed May 16, 2008

Final System Impact Study to increase an existing 77 MW hydro generator by 8 MW near PSE’s Lower Baker Generating Facility in Skagit County, WA  Queue Position No. 10.  
Draft September 25, 2007 and final completed October 10, 2007

Draft System Impact Study to increase an existing 77 MW hydro generator by 8 MW near PSE’s Lower Baker Generating Facility in Skagit County, WA  Queue Position No. 10.  
Completed September 25, 2007

Facilities Study 5.8 MW Recovered Heat Power Project near PSE’s Sumas 115 kV Substation in Whatcom County, WA OASIS 70395080  
Completed March 19, 2007

System Impact Study for 44 MW of Wind Generation at PSE’s Wild Horse 230 kV Bus in Kittitas County, WA  
Completed October 26, 2006

System Impact Study for 95 MW of Wind Generation at Wind Ridge-Wild Horse 230 kV Line in Kittitas County, WA  
Completed October 26, 2006

System Impact Study for 5.8 MW Recovered Heat Power Project near PSE’s Sumas 115 kV Sub. Whatcom County, WA OASIS 70395080  
Completed May 2, 2006

System Impact Re-Study for Zilkha Wild Horse and Kittitas Valley Wind (OASIS Nos. 26381, 26382, 26383, 26384)  
Completed September 19, 2005

Facilities Study for 200 MW of Wind generation at Wind Ridge 230 kV Substation OASIS No. 26382  
Completed October 5, 2004

Facilities Study OASIS N. 33763 150 MW from Fredrickson I at Fredrickson Bus  
Completed August 27, 2004 and Updated October 13, 2004

Draft System Impact Study 180 MW Wind Generation Interconnection to the White River-Rocky Reach 230 kV Line OASIS No. 39008  
Completed June 28, 2004

Facilities Study for 182 MW Interconnection at Sagebrush 230 kV bus OASIS No. 26383 and 26384  
Completed March 22, 2004

System Impact Study OASIS N. 33763 150 MW from Fredrickson I at Fredrickson Bus  
Completed February 4, 2004

Draft System Impact Study OASIS N. 33763 150 MW from Fredrickson I at Fredrickson Bus  
Completed December 10, 2003

Facilities Study for 300 MW at Frederickson II OASIS No. 17617 & 17888  
Completed October 31, 2003

Facilities Study for 200 MW Wind Generation from Wind Ridge 230 kV Substation to MIDC OASIS No. 26382  
Completed October 6, 2003
System Impact Study for 200 MW at Wind Ridge 230 kV Bus & 182 MW to PSE's Sagebrush 230 kV Bus (OASIS Nos. 26381, 26382, 26383, 26384)
Completed September 5, 2003 & Updated October 29, 2003