

Alder Mutual Light Company

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA - Seattle Office

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	0.52	0.54	0.57
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>			
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	0.52	0.54	0.57
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	0.52	0.54	0.57
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Pud No. 1 of Asotin County

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

Tim Simpson

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	5.82	6.00	6.20
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>			
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	5.82	6.00	6.20
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other (Nuclear)</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	5.82	6.00	6.20
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

n/a

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Avista

<<< Utility Name

Washington State Utility  
**Integrated Resource Plan Year 2016**

Prepared by: John Lyons

Estimate Year	Base Year			5 Year Estimate			10 Year Estimate		
	2015			2020			2025		
	Winter	Summer	Annual	Winter	Summer	Annual	Winter	Summer	Annual
Period	(MW)	(MW)	(MWa)	(MW)	(MW)	(MWa)	(MW)	(MW)	(MWa)
Units	(MW)	(MW)	(MWa)	(MW)	(MW)	(MWa)	(MW)	(MW)	(MWa)
<b>Loads</b>	1,106.13	1,024.81	700.93	1,176.68	1,094.58	741.68	1,254.98	1,173.46	786.05
<b>Exports</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Resources:</b>									
Future Conservation/Efficiency				29.21	25.60	17.59	68.45	62.61	42.99
Demand Response				0.00	0.00	0.00	0.00	0.00	0.00
Cogeneration	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydro	657.82	465.87	402.00	656.78	618.50	339.14	606.63	586.54	312.05
Wind	0.00	0.00	21.99	0.00	0.00	26.15	0.00	0.00	26.15
Other Renewables	30.85	30.85	24.01	30.85	30.85	26.69	30.85	30.85	26.69
Thermal - Natural Gas	569.96	469.55	262.22	569.96	469.55	412.17	569.96	469.55	426.56
Thermal - Coal	145.70	145.70	125.90	145.70	145.70	135.18	145.70	145.70	125.00
Net Long Term Contracts	0.00	0.00	-24.74	20.35	17.06	19.63	20.35	17.06	19.63
Net Short Term Contracts	0.00	0.00	-75.56	0.00	0.00	0.00	0.00	0.00	0.00
BPA	53.82	0.00	27.56	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.66	0.66	-0.39	0.66	0.66	-0.39
Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Undecided	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Resources</b>	<b>1,458.15</b>	<b>1,111.97</b>	<b>763.40</b>	<b>1,453.49</b>	<b>1,307.91</b>	<b>976.17</b>	<b>1,442.60</b>	<b>1,312.97</b>	<b>978.70</b>
<b>Load Resource Balance</b>	<b>352.02</b>	<b>87.16</b>	<b>62.47</b>	<b>276.81</b>	<b>213.33</b>	<b>234.49</b>	<b>187.62</b>	<b>139.50</b>	<b>192.65</b>

Date of Board/Commission Approval March-16 (mm/yy)

**Notes: Explain resource choices other than conservation / Use of Renewable Energy Credits in planning/ Distributed Generation Sources**

Loads are 1 in 2 expected values and do not include any consideration of planning margin. Using 90th percentile for hydro energy, rather than critical water year. Load for Base Year is actual load instead of weather adjusted load. The main cover sheet shows Avista system, and the WA share only cover sheet shows 65.63% to show the Washington only portion. The other category includes the Pullman Energy Storage Project.

Avista	
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	15 Year Estimate			20 Year Estimate		
	Winter	2030		Winter	2035	
		(MW)	Summer (MW)		Annual (MWa)	(MW)
<b>Loads</b>	1,327.76	1,249.79	829.37	1,395.43	1,321.79	869.20
<b>Exports</b>	0.00	0.00	0.00	0.00	0.00	0.00
<b>Resources:</b>						
Future Conservation/Efficiency	100.74	95.29	64.58	126.47	121.81	81.91
Demand Response	0.00	0.00	0.00	0.00	0.00	0.00
Cogeneration	0.00	0.00	0.00	0.00	0.00	0.00
Hydro	606.63	586.54	312.13	606.16	591.38	312.20
Wind	0.00	0.00	26.15	0.00	0.00	26.15
Other Renewables	30.85	30.85	26.69	30.85	30.85	26.69
Thermal - Natural Gas	387.22	316.01	281.34	386.95	318.70	285.85
Thermal - Coal	145.70	145.70	125.01	145.70	145.70	135.18
Net Long Term Contracts	20.35	17.06	19.63	20.35	17.06	19.63
Net Short Term Contracts	0.00	0.00	0.00	0.00	0.00	0.00
BPA	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.66	0.66	-0.39	0.66	0.66	-0.39
Imports	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation	0.00	0.00	0.00	0.00	0.00	0.00
Undecided	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Resources</b>	1,292.14	1,192.11	855.15	1,317.13	1,226.15	887.23
<b>Load Resource Balance</b>	-35.62	-57.68	25.78	-78.29	-95.64	18.03

Public Utility District No. 1 of Benton County

<<< Utility Name

Washington State Utility

Integrated Resource Plan Year

2016

Prepared by:

James Dykes

Estimate Year	Base Year			5 Year Estimate			10 Year Estimate		
	2015			2020			2025		
Period	Winter	Summer	Annual	Winter	Summer	Annual	Winter	Summer	Annual
Units	(MW)	(MW)	(MWa)	(MW)	(MW)	(MWa)	(MW)	(MW)	(MWa)
<b>Loads</b>	266.70	429.50	205.50	320.00	449.00	210.99	326.00	459.00	215.34
<b>Exports</b>									
<b>Resources:</b>									
Future Conservation/Efficiency				3.12	3.12	3.12	6.02	6.02	6.02
Demand Response									
Cogeneration									
Hydro	1.00	3.00	1.40	1.00	3.00	1.31	1.00	3.00	1.31
Wind	1.00	3.00	4.10	1.00	3.00	6.00	1.00	3.00	6.00
Other Renewables				4.00	12.00	25.65	4.00	12.00	25.65
Thermal - Natural Gas	6.00	50.00	10.50	8.00	50.00	12.50	0.00	0.00	0.00
Thermal - Coal									
Net Long Term Contracts									
Net Short Term Contracts	20.70	119.50	0.00	64.58	122.58		75.68	179.68	
BPA	238.00	254.00	192.60	238.00	254.00	199.00	238.00	254.00	199.00
Other	0.00								
Imports									
Distributed Generation				0.30	1.30	0.70	0.30	1.30	0.70
Undecided									
<b>Total Resources</b>	266.70	429.50	208.60	320.00	449.00	248.28	326.00	459.00	238.68
<b>Load Resource Balance</b>	0.00	0.00	3.10	0.00	0.00	37.29	0.00	0.00	23.34

Date of Board/Commission Approval

August-16 (mm/yy)

Notes: Explain resource choices other than conservation / Use of Renewable Energy Credits in planning/ Distributed Generation Sources

Public Utility District No. 1 of Benton County

<<< Utility Name

13 - Based on values used in District's 2016-2025 Load Forecast which is a major driver in the IRP modeling process.

19 - Frederickson NG contract expires in 2022.

22 - Winter and Summer capacity needs secured from the market via Risk Management Committee approved hedges and short term market purchases.

18 - 2020 and 2025 estimates include renewables acquired to meet increase to 15% RPS requirement as stipulated in the Energy Independence Act.

Benton Rural Electric Association

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

John Porter

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	71.14	68.80	74.50
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>			
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	68.37	59.08	59.08
<i>BPA Tier 2</i>		9.72	15.42
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>	2.77		
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	71.14	68.80	74.50
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

November-16 (mm/yy)

**Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan**

The Benton REA load decrease is because Benton REA transferred all of the accounts on the Yakama Indian Reservation to the tribal Utility, Yakama Power.

Big Bend Electric Cooperative

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

Christina Carter

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	65.81	64.73	68.43
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.33	0.34
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	63.31	60.00	60.00
<i>BPA Tier 2</i>	2.50	0.40	0.09
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>		4.00	8.00
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	65.81	64.73	68.43
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

August-16 (mm/yy)

**Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan**

See attached document: 2016 Washington State Electric Utility Resource Plan for Big Bend Electric Cooperative.  
Approved by Big Bend Electric Cooperative's Board of Trustees on 8/25/2016

City of Blaine

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	<i>FY 2015</i>	<i>FY 2020</i>	<i>FY 2025</i>
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	8.85	8.95	8.98
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.06	0.06
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	8.85	8.89	8.92
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	8.85	8.95	8.98
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

City of Centralia

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

David Johnson

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2021	2026
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	29.61	30.79	32.42
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>			
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	20.66	23.67	23.98
<i>BPA Tier 2</i>	1.04		0.33
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>	7.91	7.11	7.11
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			1.00
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	29.61	30.78	32.41
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

August-16 (mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

PUD No. 1 of Chelan County

<<< Utility Name

Washington State Utility

Integrated Resource Plan Year

2016

Prepared by:

Becky Keating

Estimate Year	Base Year			5 Year Estimate			10 Year Estimate		
	Period	2015		2021			2026		
Units	Winter (MW)	Summer (MW)	Annual (MWa)	Winter (MW)	Summer (MW)	Annual (MWa)	Winter (MW)	Summer (MW)	Annual (MWa)
<b>Loads</b>	416.00	235.00	185.00	468.00	253.00	210.00	505.00	266.00	237.00
<b>Exports</b>									
<b>Resources:</b>									
Future Conservation/Efficiency				9.24	6.71	5.50	16.68	12.11	9.93
Demand Response				20.00	20.00	0.00	20.00	20.00	0.00
Cogeneration									
Hydro	419.00	220.00	189.00	770.00	386.00	338.00	858.00	428.00	375.00
Wind	0.01	0.21	2.00	1.94	0.50	2.25	1.94	0.50	2.25
Other Renewables									
Thermal - Natural Gas									
Thermal - Coal									
Net Long Term Contracts									
Net Short Term Contracts									
BPA									
Other									
Imports									
Distributed Generation									
Undecided									
<b>Total Resources</b>	419.01	220.21	191.00	801.18	413.21	345.75	896.62	460.61	387.18
<b>Load Resource Balance</b>	3.01	-14.79	6.00	333.18	160.21	135.75	391.62	194.61	150.18

Date of Board/Commission Approval

June-16 (mm/yy)

Notes: Explain resource choices other than conservation / Use of Renewable Energy Credits in planning/ Distributed Generation Sources

PUD No. 1 of Chelan County

<<< Utility Name

Chelan PUD has one agreement falling under the umbrella of DR. It is a load shedding agreement with Alcoa Power Generating, Inc. (APGI) and Alcoa, Inc. (Alcoa). The agreement allows for a frequency of no more than four times in any calendar year and for an amount of energy up to 20 MW per hour. The District is able to count the 20 MW as part of its operating reserves. In December 2015, Alcoa idled their Wenatchee Works plant, but is scheduled to ramp back up in the spring of 2017. Appendix B in Chelan PUD's IRP includes this cover sheet with supplemental information on loads and resources.

City of Cheney

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	16.15	17.88	19.07
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.05	0.05
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	16.15	15.56	15.56
<i>BPA Tier 2</i>		0.26	0.46
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>		2.00	3.00
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	16.15	17.88	19.07
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

City of Chewelah

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	2.52	2.65	2.68
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>			
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	2.52	2.65	2.68
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	2.52	2.65	2.68
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

PUD #1 of Clallam County

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

Fred Mitchell

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2014	2021	2026
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	77.00	80.32	84.75
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		2.23	4.45
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	75.07	75.29	75.29
<i>BPA Tier 2</i>	1.26	2.14 C	
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>	0.67	0.67	0.67
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	77.00	80.33	80.41
<b>Load Resource Balance</b>	0.00	0.00	-4.34

Date of Board/Commission Approval

August-16 (mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

PUD #1 of Clallam County

<< Utility Name

*Information is reported using the Federal fiscal year (October - September). The base year is 2014 weather normalized load. The 2021 and 2026 load forecasts are based on 2015 weather normalized actual load applied to BPA's AARG of 0.6% including I-937 conservation.*

Clark Public Utilities

<<< Utility Name

Washington State Utility

Integrated Resource Plan Year

2016

Prepared by:

Tom Haymaker

Estimate Year	Base Year			5 Year Estimate			10 Year Estimate		
	Period	2015		2020			2025		
Units	Winter (MW)	Summer (MW)	Annual (MWa)	Winter (MW)	Summer (MW)	Annual (MWa)	Winter (MW)	Summer (MW)	Annual (MWa)
<b>Loads</b>	940.00	817.00	514.40	969.00		542.88	984.00		561.88
<b>Exports</b>	0.00	0.00	0.00	0.00					
<b>Resources:</b>									
Future Conservation/Efficiency				33.00		23.30	63.00		42.70
Demand Response									
Cogeneration	0.00	0.00	0.00						
Hydro	1.00	1.00	1.79	1.00		1.18	1.00		1.18
Wind	0.00	0.00	15.91	0.00		18.30	0.00		18.30
Other Renewables	0.00	0.00							
Thermal - Natural Gas	257.00	243.00	206.94	248.00		225.00	248.00		225.00
Thermal - Coal	0.00	0.00	0.00						
Net Long Term Contracts	0.00	0.00	0.00						
Net Short Term Contracts	200.00	75.00	-3.18						
BPA	413.00	299.00	322.94	508.00		293.40	508.00		293.00
Other									
Imports									
Distributed Generation									
Undecided									
<b>Total Resources</b>	871.00	618.00	544.40	790.00	0.00	561.18	820.00	0.00	580.18
<b>Load Resource Balance</b>	-69.00	-199.00	30.00	-179.00	0.00	18.30	-164.00	0.00	18.30

Date of Board/Commission Approval

August-16 (mm/yy)

**Notes: Explain resource choices other than conservation / Use of Renewable Energy Credits in planning/ Distributed Generation Sources**

Line 10: Actual load s are used for base year.

Line 26:

Distributed Generation such as rooftop solar and community solar are included as negative loads. Their impacts to load are diminumus for planning purposes.

Columbia REA

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by: Scott Peters

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	42.02	43.72	48.44
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>			
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	38.26	37.33	37.33
<i>BPA Tier 2</i>	2.41		
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>	1.35		
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>		6.39	11.11
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	42.02	43.72	48.44
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

August-16 (mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Town of Coulee Dam

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	1.84	1.91	1.98
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>			
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	1.84	1.91	1.98
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	1.84	1.91	1.98
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Public Utility District No. 1 of Cowlitz County

<<< Utility Name

Washington State Utility

Integrated Resource Plan Year

2016

Prepared by:

ATW

Estimate Year	Base Year			5 Year Estimate			10 Year Estimate		
	2015			2020			2025		
	Winter	Summer	Annual	Winter	Summer	Annual	Winter	Summer	Annual
Units	(MW)	(MW)	(MWa)	(MW)	(MW)	(MWa)	(MW)	(MW)	(MWa)
<b>Loads</b>	755.71	641.59	567.33	765.00	627.30	587.19	768.30	625.90	586.60
<b>Exports</b>									
<b>Resources:</b>									
Future Conservation/Efficiency									
Demand Response									
Cogeneration									
Hydro	76.00	52.00	25.39	79.00	79.00	15.80	79.00	79.00	15.80
Wind		8.00	20.74	0.00	0.00	33.88	0.00	0.00	33.88
Other Renewables									
Thermal - Natural Gas									
Thermal - Coal									
Net Long Term Contracts									
Net Short Term Contracts									
BPA	682.00	599.00	600.95	716.84	681.29	551.18	716.84	681.29	553.05
Other									
Imports									
Distributed Generation									
Undecided									
<b>Total Resources</b>	758.00	659.00	647.08	795.84	760.29	600.85	795.84	760.29	602.72
<b>Load Resource Balance</b>	2.29	17.41	79.74	30.84	132.99	13.66	27.54	134.39	16.12

Date of Board/Commission Approval

August-16 (mm/yy)

Notes: Explain resource choices other than conservation / Use of Renewable Energy Credits in planning/ Distributed Generation Sources

Public Utility District No. 1 of Cowlitz County

<<< Utility Name

- 2015 Base year load is not weather adjusted.
- Loads were forecasted using regression methodology that captured conservation effects and trends
- For 2020 and 2025 energy balance, hydro and slice generation is assumed to be critical on an annual basis.
- For 2020 and 2025 capacity balance, hydro generation is assumed to be at maximum capacity. Slice generation is assumed to have a system maximum generation capability of 10,500 MW.
- For 2020 and 2025 energy balance, wind resources are assumed to generate at an annual capacity factor of 27%.
- For capacity balance, wind resources are assumed to not generate for the hour.

PUD No. 1 of Douglas County, Washington

<< Utility Name

Washington State Utility Resource Plan Year 2016

Prepared by: Jeff Johnson

	Base Year	5 Yr. Est.	10 Yr Est.
Estimate Year	2015	2020	2025
Period	Annual	Annual	Annual
Units	(MWa)	(MWa)	(MWa)
<b>Loads</b>	93.00	127.00	162.00
<b>Resources:</b>			
Future Conservation/Efficiency		0.25	0.30
Demand Response			
BPA Tier 1 (include BPA PF)			
BPA Tier 2			
<b>Non BPA:</b>			
Co-generation			
Hydro (critical water)	174.90	297.00	283.00
Wind	2.51	3.00	3.00
Other Renewables			
Thermal-Natural Gas			
Thermal-Coal			
Market Purchase (non BPA)	23.61	0.00	0.00
Other			
Distributed Generation			
Undecided			
<b>Total Resources</b>	201.02	300.25	286.30
<b>Load Resource Balance</b>	108.02	173.25	124.30

Date of Board/Commission Approval  (mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in pl

The "Market Purchase (non BPA) resource category consists of annual amounts under a pre-existing long-term firm power exchange agreement, dated October 1, 2000.

Town of Eatonville

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	3.04	3.28	3.31
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>			
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	3.04	3.28	3.31
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	3.04	3.28	3.31
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

City of Ellensburg

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	23.23	24.15	24.43
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.06	0.06
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	23.23	24.09	24.37
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	23.23	24.15	24.43
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Elmhurst Mutual Power and Light Company

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	29.55	32.15	33.46
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.17	0.17
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	29.55	31.98	31.72
<i>BPA Tier 2</i>			1.57
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	29.55	32.15	33.46
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Ferry County PUD

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	12.25	9.51	9.65
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.02	0.02
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	12.25	9.49	9.63
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	12.25	9.51	9.65
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

PUD No. 1 of Franklin County

Washington State Utility Resource Plan Year

2016

Prepared by:

Richard Sargent

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	124.00	135.00	142.00
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		4.73	7.88
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	127.00	116.70	116.70
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>	5.00	6.00	6.00
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>	17.00	30.00	
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			11.00
<i>Other</i>			
<i>Distributed Generation</i>	0.60	0.60	0.60
<i>Undecided</i>			
<b>Total Resources</b>	149.60	158.03	142.18
<b>Load Resource Balance</b>	25.60	23.03	0.18

Date of Board/Commission Approval

August-16 (mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

PUD No. 1 of Franklin County

*Franklin Public Utility District has sufficient resources to meet its forecasted loads through August 2022. Based upon current long term market forecasts, the most cost effective energy after August 2022 is through market purchases.* (1)

*Column "B" Base Year calculations are based upon actual loads and resource generation. Exports/imports for seasonal exchanges are not included. (2) Line 24 "Distributed Generation" is both small hydro and community solar. (3) BPA Tier 1 is calculated on our Block/Slice contract calculated at critical water.*

Public Utility District No. 2 of Grant County

<<< Utility Name

Washington State Utility

**Integrated Resource Plan Year 2016**

Prepared by:

8/25/2016

Casey Sprouse

Estimate Year	Base Year			5 Year Estimate			10 Year Estimate		
	2015			2020			2025		
	Period	Winter	Summer	Annual	Winter	Summer	Annual	Winter	Summer
Units	(MW)	(MW)	(MWa)	(MW)	(MW)	(MWa)	(MW)	(MW)	(MWa)
<b>Loads</b>	623.00	777.00	550.50	929.00	960.00	696.60	1,070.00	1,128.00	807.20
<b>Exports</b>	1,017.00	342.00	316.00	1,165.00	991.00	333.47			
<b>Resources:</b>									
Future Conservation/Efficiency				0.00	0.00	8.61	0.00	0.00	20.40
Demand Response									
Cogeneration									
Hydro	1,028.00	676.00	642.07	1,165.00	1,003.00	473.10	1,165.00	1,003.00	473.10
Wind			3.47	0.00	0.00	3.40	0.00	0.00	3.40
Other Renewables									
Thermal - Natural Gas									
Thermal - Coal									
Net Long Term Contracts			214.00	920.00	940.00	414.51			
Net Short Term Contracts									
BPA	9.00	8.00	6.98	9.00	8.00	5.00	9.00	8.00	5.00
Other									
Imports									
Distributed Generation									
Undecided									
<b>Total Resources</b>	1,037.00	684.00	866.51	2,094.00	1,951.00	904.62	1,174.00	1,011.00	501.90
<b>Load Resource Balance</b>	-603.00	-435.00	0.01	0.00	0.00	-125.45	104.00	-117.00	-305.30

Date of Board/Commission Approval

August-16 (mm/yy)

**Notes: Explain resource choices other than conservation / Use of Renewable Energy Credits in planning/ Distributed Generation Sources**

Public Utility District No. 2 of Grant County

<<< Utility Name

- 1) Base year 2015 data is actual load and actual generation. Base year 2015 peak capability is the actual generation on the observed peak load hours for 2015.
- 2) Hydro values include Grant PUD rights in Wanapum, Priest Rapids, P.E.C, Quincy Chute and Wapato.
- 3) Conservation based on economic potential study performed in November 2015.
- 4) Physical loads and resources are covered through a resource and load exchange agreement with Shell Energy until 2020.
- 5) Imports and exports only reflects purchases and sales that have been executed.
- 6) Hydro peak capabilities based on PNCA 2016 Final reg for Priest Rapids and Wanapum with 12 MW of summer peak capability for PEC and Quincy Chute.

Grays Harbor Public Utility District No. 1

<<< Utility Name

Washington State Utility

**Integrated Resource Plan Year**

**2016**

Prepared by:

linda James-Saffron

Estimate Year	Base Year			5 Year Estimate			10 Year Estimate		
	Period	2015		Winter	2020		Winter	2025	
		Winter	Summer		Annual	Summer		Annual	Summer
Units	(MW)	(MW)	(MWa)	(MW)	(MW)	(MWa)	(MW)	(MW)	(MWa)
<b>Loads</b>	230.00	133.00	126.56	233.42	141.47	113.65	236.69	144.74	117.16
<b>Exports</b>									
<b>Resources:</b>									
Future Conservation/Efficiency						1.99			4.16
Demand Response									
Cogeneration	11.00	11.00	11.00	11.00	11.00	11.00			
Hydro									
Wind	25.96	25.96	12.23	25.96	25.96	9.30	18.00	18.00	6.80
Other Renewables									
Thermal - Natural Gas	45.00	45.00	25.98	45.00	45.00	22.19			
Thermal - Coal									
Net Long Term Contracts									
Net Short Term Contracts									
BPA	131.76	131.76	131.76	130.29	130.29	130.29	129.94	129.94	129.94
Other									
Imports									
Distributed Generation									
Undecided									
<b>Total Resources</b>	213.72	213.72	180.97	212.25	212.25	174.77	147.94	147.94	140.90
<b>Load Resource Balance</b>	-16.28	80.72	54.41	-21.17	70.78	61.12	-88.75	3.20	23.74

Date of Board/Commission Approval

August-16 (mm/yy)

**Notes: Explain resource choices other than conservation / Use of Renewable Energy Credits in planning/ Distributed Generation Sources**

Grays Harbor Public Utility District No. 1

<<< Utility Name

- 1.) Cogeneration resources are purchased through PPA with internal industrial customer.
- 2.) Wind resources include portions of Phase 1,2,&3 of Nine Canyon Wind Project, and Coastal Community Action's Wind Project located within the district.
- 3.) Thermal - NG resources include Frederickson; IRP assumes 49% capacity factor for 2020.
- 4.) Primary resource is BPA and Slice/Block contract through 2028. BPA data includes Rates High Water Mark figures for base and estimates.

Inland Power and Light

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

John Francisco

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2014	2019	2024
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	109.11	113.58	117.27
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		1.25	1.25
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	108.19	106.22	106.22
<i>BPA Tier 2</i>	0.92	7.00	
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			9.80
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	109.11	114.47	117.27
<b>Load Resource Balance</b>	0.00	0.89	0.00

Date of Board/Commission Approval

September-16 (mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Inland Power and Light

<< Utility Name

*Loads are actual for base year and utilize the BPA published forecast for five and ten year estimates for this report. Conservation potential assessments are showing flat or declining conservation potential, however this report assumes potential associated with new loads will allow for consistent conservation acquisition over the report period. Resource investigations conducted by Inland Power in 2014 and 2015 concluded that unspecified market purchases would provide for the most cost effective and reliable AHWM load service to our membership. Inland Power signed a long term contract for RECs to satisfy its Energy Independence Act (RCW 19.285) compliance obligation.*

Public Utility District #1 of Jefferson County

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

Jefferson PUD

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	<b>41.31</b>	44.05	44.64
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>			
<i>Demand Response</i>		0.09	0.09
<i>BPA Tier 1 (include BPA PF)</i>	<b>41.31</b>	43.96	44.55
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	41.31	44.05	44.64
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

August-16 (mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Kittitas County PUD No. 1

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

Matt Boast

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	11.24	11.97	12.26
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.23	0.24
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	9.85	9.85	9.85
<i>BPA Tier 2</i>	0.38	0.87	1.14
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>	0.98	0.98	0.98
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>	0.03	0.04	0.05
<i>Undecided</i>			
<b>Total Resources</b>	11.24	11.97	12.26
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

December-16 (mm/yy)

**Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan**

Please note that the Board approval is in the future. Wanted to submit for your convenience.

Public Utility District No. 1 of Klickitat County

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

Mike DeMott

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	44.94	46.31	47.99
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.15	0.20
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	36.30	36.30	36.30
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>	4.50	4.50	4.50
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>	4.14	5.36	6.99
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	44.94	46.31	47.99
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Lakeview Power and Light

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	29.88	31.43	32.20
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.33	0.33
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	29.88	31.10	31.87
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	29.88	31.43	32.20
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Public Utility District No. 1 of Lewis County

<<< Utility Name

Washington State Utility

Integrated Resource Plan Year

2016

Prepared by:

Matt Samuelson

Estimate Year	Base Year			5 Year Estimate			10 Year Estimate		
	2015			2020			2025		
Period	Winter	Summer	Annual	Winter	Summer	Annual	Winter	Summer	Annual
Units	(MW)	(MW)	(MWa)	(MW)	(MW)	(MWa)	(MW)	(MW)	(MWa)
<b>Loads</b>	233.37	146.49	110.66	211.00	129.00	110.63	215.00	131.00	110.56
<b>Exports</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Resources:</b>									
Future Conservation/Efficiency				3.80	3.80	1.67	8.53	8.53	3.41
Demand Response				0.00	0.00	0.00	0.00	0.00	0.00
Cogeneration	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydro	5.12	4.52	1.19	5.12	4.52	1.19	5.12	4.52	1.19
Wind	7.71	7.71	7.71	7.17	7.17	7.17	7.17	7.17	7.17
Other Renewables	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermal - Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Thermal - Coal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Net Long Term Contracts	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Net Short Term Contracts									
BPA	195.00	136.00	120.68	195.00	136.00	123.53	195.00	136.00	121.40
Other	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Imports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Distributed Generation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Undecided	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Resources</b>	<b>233.83</b>	<b>148.23</b>	<b>129.58</b>	<b>211.09</b>	<b>151.49</b>	<b>133.56</b>	<b>215.82</b>	<b>156.22</b>	<b>133.17</b>
<b>Load Resource Balance</b>	<b>0.46</b>	<b>1.74</b>	<b>18.92</b>	<b>0.09</b>	<b>22.49</b>	<b>22.93</b>	<b>0.82</b>	<b>25.22</b>	<b>22.61</b>

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of Renewable Energy Credits in planning/ Distributed Generation Sources

Mason County PUD No 1

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	8.39	9.44	9.52
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.03	0.03
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	8.08	8.87	8.95
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>	0.31	0.54	0.54
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	8.39	9.44	9.52
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Mason Public Utility District No. 3

<<< Utility Name

Washington State Utility  
**Integrated Resource Plan Year 2016**

Prepared by: Michele Patters, Energy Resources Manager

Estimate Year	Base Year			5 Year Estimate			10 Year Estimate		
	2015			2020			2025		
	Winter	Summer	Annual	Winter	Summer	Annual	Winter	Summer	Annual
Units	(MW)	(MW)	(MWa)	(MW)	(MW)	(MWa)	(MW)	(MW)	(MWa)
<b>Loads</b>	160.70	78.74	76.43	163.10	79.92	82.67	165.50	81.10	83.78
<b>Exports</b>									
<b>Resources:</b>									
Future Conservation/Efficiency						0.21			0.21
Demand Response									
Cogeneration									
Hydro			0.66			0.66			0.66
Wind			1.47			1.73			1.73
Other Renewables									
Thermal - Natural Gas									
Thermal - Coal									
Net Long Term Contracts									
Net Short Term Contracts									
BPA	160.70	78.74	74.28	163.10	79.92	80.05	165.50	81.10	81.12
Other									0.04
Imports									
Distributed Generation			0.02			0.02			0.02
Undecided									
<b>Total Resources</b>	160.70	78.74	76.43	163.10	79.92	82.67	165.50	81.10	83.78
<b>Load Resource Balance</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Date of Board/Commission Approval August-16 (mm/yy)

**Notes: Explain resource choices other than conservation / Use of Renewable Energy Credits in planning/ Distributed Generation Sources**

Line 24: Mason 3's "Other" source will be BPA's Tier 2 product. Line 26: Mason 3's "Distributed Generation" source is solar.

City of McCleary

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	<i>FY 2015</i>	<i>FY 2020</i>	<i>FY 2025</i>
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	3.40	4.24	4.31
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.03	0.03
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	3.40	3.69	3.69
<i>BPA Tier 2</i>		0.52	0.59
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	3.40	4.24	4.31
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

City of Milton

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	6.55	7.91	8.12
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.49	0.49
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	6.55	7.42	7.63
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	6.55	7.91	8.12
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Modern Electric

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	25.85	26.07	26.47
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.14	0.14
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	25.85	25.93	26.33
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	25.85	26.07	26.47
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Nespelem Valley Electric Cooperative

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	7.44	9.28	9.67
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.03	0.03
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	7.44	5.79	5.79
<i>BPA Tier 2</i>		3.46	3.85
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	7.44	9.28	9.67
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Ohop Mutual Light Company

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	9.26	9.83	9.89
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.05	0.05
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	9.26	9.78	9.84
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	9.26	9.83	9.89
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Okanogan County Electric

<< Utility Name

Washington State Utility Resource Plan Year 2016

Prepared by: Greg Mendonca - PNGC Power

	Base Year	5 Yr. Est.	10 Yr Est.
Estimate Year	2014	2019	2024
Period	Annual	Annual	Annual
Units	(MWa)	(MWa)	(MWa)
<b>Loads</b>	6.66	6.65	6.52
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>			
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	6.56	6.42	6.42
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>	0.10	0.23	0.10
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	6.66	6.65	6.52
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval  (mm/yy)

**Notes: Explain resource choices other than conservation / Use of renewable energy credits in pl:**

For planning purposes Okanogan uses a market purchase as the future resource used to meet Above-RHWM Load, though it could be a combination of resources. PNGC did not include any conservation because the effect of conservation is built into our total retail load forecast just as BPA does in their forecasts. Due to this planning paradigm, conservation is always the resource of first choice.

PUD No 1 of Okanogan County

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

Ron Gadeberg

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2016	2021	2026
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	74.25	78.00	82.00
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>			
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	45.46	45.46	45.46
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>	24.25	24.25	24.25
<i>Wind</i>	4.50	4.50	4.50
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	74.21	74.21	74.21
<b>Load Resource Balance</b>	-0.04	-3.79	-7.79

Date of Board/Commission Approval

(mm/yy)

**Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan**

Loads: Used Aug-Dec 2015 and Jan-Jul 2016. Resources: BPA based on Block/Slice contract (Block 20.405 Slice 25.058) Hydro Based on Critical Wells Project (8% of output)

Orcas Power and Light Cooperative

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

Joel Mietzner P.E.

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	23.30	25.00	26.50
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.20	0.35
<i>Demand Response</i>		0.10	0.15
<i>BPA Tier 1 (include BPA PF)</i>	24.50	24.90	24.80
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>	0.10	0.10	0.10
<i>Wind</i>			
<i>Other Renewables</i>	0.40	0.80	1.20
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	25.00	26.10	26.60
<b>Load Resource Balance</b>	1.70	1.10	0.10

Date of Board/Commission Approval

August-16 (mm/yy)

**Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan**

In 2014 solar resources were mistakenly listed as Distributed Generation on line 24. This has been corrected in the 2016 submittal and solar generation moved to line 19..

Pacific Power and Light (PacifiCorp)

<<< Utility Name

Washington State Utility

Integrated Resource Plan Year

2016

Prepared by:

Debi Winney

Estimate Year	Base Year			5 Year Estimate			10 Year Estimate		
	Period	2016		2021			2026		
Units	Winter (MW)	Summer (MW)	Annual (MWa)	Winter (MW)	Summer (MW)	Annual (MWa)	Winter (MW)	Summer (MW)	Annual (MWa)
<b>Loads</b>		701.39	518.79		764.75	546.90		790.38	561.72
<b>Exports</b>		64.54	24.45		23.40	18.32		15.68	10.53
<b>Resources:</b>									
Future Conservation/Efficiency					49.52	36.40		85.49	60.35
Demand Response					22.79	0.00		26.98	0.00
Cogeneration		0.00	0.00		0.00	0.00		0.00	0.00
Hydro		72.97	40.48		53.63	31.38		51.89	29.49
Wind		30.48	54.34		29.16	53.72		23.04	46.13
Other Renewables		18.76	12.92		33.87	27.79		31.21	25.32
Thermal - Natural Gas		198.21	118.13		192.16	98.73		189.05	103.72
Thermal - Coal		433.54	273.24		400.62	327.11		362.81	262.22
Net Long Term Contracts		2.00	6.67		0.00	1.79		0.00	0.00
Net Short Term Contracts		77.17	10.06		72.51	10.21		105.89	14.80
BPA		0.00	0.00		0.00	0.00		0.00	0.00
Other		11.16	-5.30		10.84	-5.24		10.66	-5.11
Imports		16.19	13.10		15.71	5.92		8.52	0.10
Distributed Generation		0.06	0.02		0.35	0.09		1.74	0.69
Undecided		0.00	0.00		0.00	0.00		0.00	0.00
<b>Total Resources</b>	0.00	860.55	523.65	0.00	881.17	587.90	0.00	897.29	537.72
<b>Load Resource Balance</b>	0.00	94.61	-19.60	0.00	93.02	22.67	0.00	91.23	-34.53

Date of Board/Commission Approval

November-15 (mm/yy)

Notes: Explain resource choices other than conservation / Use of Renewable Energy Credits in planning/ Distributed Generation Sources

Pacific Power and Light (PacifiCorp)

<<< Utility Name

Notes/Explanation for category choices:

- Information is based on the 2015 Integrated Resource Plan Update filed with the Washington Utilities and Transportation Commission on March 31, 2016.
- 2015 IRP Acknowledgement Letter was issued on November 11, 2015.
- Row 10: PacifiCorp includes Distributed Generation (DG) in the loads for the 2015 IRP Update, but as requested by Commerce we have added the DG back to the Loads and included the DG in Row 26.
- Row 13 & 14: PacifiCorp includes energy efficiency / demand response in its 2015 IRP Update load and resource balance. PacifiCorp is not including 2016 according to the instructions provided. PacifiCorp's values for 2016 are as follows:
  - Row 13: Future Conservation / Efficiency = 13.4 MW, 10.2 MWa
  - Row 14: Demand Response = 23.5 MW, 0.0 MWa
- The Load Resource Balance in Capacity primarily reflects the 13% Planning Reserve Margin not included in Resources or Loads.

Pacific County PUD No. 2

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

Douglas L. Miller

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	34.88	37.47	37.88
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.60	1.01
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	35.97	36.87	36.87
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>	2.70		
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	38.67	37.47	37.88
<b>Load Resource Balance</b>	3.79	0.00	0.00

Date of Board/Commission Approval

August-16 (mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Parkland Light and Water Company

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	12.91	13.67	13.80
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.07	0.07
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	12.91	13.60	13.73
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	12.91	13.67	13.80
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Pend Oreille PUD

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

Director, Power and Risk Management

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	96.18	26.96	30.32
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>			
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	20.00	0.00	
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>	76.66	81.60	81.60
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>	0.01	0.01	0.01
<i>Undecided</i>			
<b>Total Resources</b>	96.67	81.61	81.61
<b>Load Resource Balance</b>	0.49	54.65	51.29

Date of Board/Commission Approval

(mm/yy)

**Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan**

Line 24: We have 4 distributed generation customers at this time. All four are solar and the total capacity is less than 1/10th of a mw.

Peninsula Light

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

Sharon Silver

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2030
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	66.79	67.79	68.79
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.50	1.00
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	66.79	67.29	67.79
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	66.79	67.79	68.79
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

August-16 (mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

City of Port Angeles

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

Gregg King

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2021	2026
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	56.25	59.57	59.40
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.30	0.30
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	56.16	59.18	59.01
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>	0.09	0.09	0.09
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	56.25	59.57	59.40
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

August-16 (mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Puget Sound Energy

&lt;&lt;&lt; Utility Name

Washington State Utility

Integrated Resource Plan Year

2016

Prepared by:

Chris Schaefer

Estimate Year	Base Year			5 Year Estimate			10 Year Estimate		
	2016			2021			2026		
Period	Winter	Summer	Annual	Winter	Summer	Annual	Winter	Summer	Annual
Units	(MW)	(MW)	(MWa)	(MW)	(MW)	(MWa)	(MW)	(MW)	(MWa)
<b>Loads</b>	4,929.00	3,170.00	2,636.00	5,364.00	3,577.00	2,888.00	5,784.00	3,989.00	3,136.00
<b>Exports</b>	34.00	334.00	69.00	20.00	320.00	59.00	0.00	300.00	47.00
<b>Resources:</b>									
Future Conservation/Efficiency				411.00	245.00	275.00	669.00	431.00	470.00
Demand Response				121.00			130.00		
Cogeneration									
Hydro	897.00	781.00	521.00	897.00	777.00	516.00	897.00	777.00	500.00
Wind	74.00	74.00	251.00	74.00	74.00	251.00	74.00	74.00	251.00
Other Renewables									
Thermal - Natural Gas	2,008.00	1,852.00	1,155.00	2,028.00	1,852.00	1,155.00	2,028.00	1,852.00	1,155.00
Thermal - Coal	592.00	592.00	575.00	592.00	592.00	575.00	592.00	592.00	575.00
Net Long Term Contracts	492.00	300.00	358.00	405.00	395.00	408.00	15.00	4.00	5.00
Net Short Term Contracts	1,686.00	1,762.00		1,201.00	1,398.00		1,190.00	1,384.00	
BPA									
Other									
Imports	308.00	8.00	50.00	308.00	8.00	47.00	308.00	8.00	47.00
Distributed Generation									
Undecided									
<b>Total Resources</b>	<b>6,057.00</b>	<b>5,369.00</b>	<b>2,910.00</b>	<b>6,037.00</b>	<b>5,341.00</b>	<b>3,227.00</b>	<b>5,903.00</b>	<b>5,122.00</b>	<b>3,003.00</b>
<b>Load Resource Balance</b>	<b>1,094.00</b>	<b>1,865.00</b>	<b>205.00</b>	<b>653.00</b>	<b>1,444.00</b>	<b>280.00</b>	<b>119.00</b>	<b>833.00</b>	<b>-180.00</b>

Date of Board/Commission Approval

n/a

(mm/yy)

**Notes: Explain resource choices other than conservation / Use of Renewable Energy Credits in planning/ Distributed Generation Sources**

The plan includes the least cost combination of conservation and supply-side resources to meet requirements, per WAC 480-100-238. This information is also available in PSE's 2015 Integrated Resource Plan, page B-11, filed with the Washington Utilities and Transportation Commission, Docket No. UE-141170.

City of Richland

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

Elena Manzo

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	103.80	117.90	123.10
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		3.50	6.70
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	101.60	101.90	101.90
<i>BPA Tier 2</i>	2.00	3.00	1.00
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>	0.00	5.00	5.00
<i>Other</i>			
<i>Distributed Generation</i>	0.20	1.50	3.50
<i>Undecided</i>		3.00	5.00
<b>Total Resources</b>	103.80	117.90	123.10
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

**Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan**

Richland is choosing to meet its needs with least-cost resources until it grows large enough for the I-937 standards to apply.

Town of Ruston

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

Tacoma Power - Tom Martin

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	0.69	0.71	0.69
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>			
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>			
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>	0.69	0.71	0.69
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	0.69	0.71	0.69
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Projections for 2020 & 2025 are based on Tacoma Power's Load Forecast growth rate for General Service Customers.

Seattle City Light

<<< Utility Name

Washington State Utility

Integrated Resource Plan Year

2016

Prepared by:

Aliza Seelig

Estimate Year	Base Year			5 Year Estimate			10 Year Estimate		
	Period	2015		2020			2025		
Units	Winter (MW)	Summer (MW)	Annual (MWa)	Winter (MW)	Summer (MW)	Annual (MWa)	Winter (MW)	Summer (MW)	Annual (MWa)
<b>Loads</b>			1,119.70			1,151.70			1,174.70
<b>Exports</b>			46.50			0			0.00
<b>Resources:</b>									
Future Conservation/Efficiency						78.20			142.80
Demand Response									
Cogeneration			1.80			2.45			2.45
Hydro			752.20			652.00			620.00
Wind			34.20			42.00			0.00
Other Renewables			13.70			12.00			12.00
Thermal - Natural Gas									
Thermal - Coal									
Net Long Term Contracts									
Net Short Term Contracts									
BPA			567.50			514.00			513.00
Other			0.00						
Imports			40.30			0.00			0.00
Distributed Generation									
Undecided									
<b>Total Resources</b>	0.00	0.00	1,409.70	0.00	0.00	1,300.65	0.00	0.00	1,290.25
<b>Load Resource Balance</b>	0.00	0.00	243.50	0.00	0.00	148.95	0.00	0.00	115.55

Date of Board/Commission Approval

August-16 (mm/yy)

Notes: Explain resource choices other than conservation / Use of Renewable Energy Credits in planning/ Distributed Generation Sources

1) Base year load is weather adjusted. 2020 and 2025 loads don't include conservation or demand reduction. 16) This row represents City Light's hydro resources and long-term hydro contracts. It also represents critical water condition for 2020 and 2025, and historical for 2015. 17) Stateline wind contract expires in 2021. 18) Other renewables include landfill gas and waste wood biomass. Burlington Renewable biomass contract expires in 2017. 23) Hydro portion of City Light's BPA slice contract represents critical water condition.

Port of Seattle - SeaTac Airport

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

Trevor Emtman

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	16.38	20.18	20.99
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>			
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	17.54	17.54	17.54
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	17.54	17.54	17.54
<b>Load Resource Balance</b>	1.16	-2.64	-3.45

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Skamania County PUD No. 1

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	14.73	15.32	15.46
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.05	0.05
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	14.73	15.27	15.41
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	14.73	15.32	15.46
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

PUD #1 of Snohomish County

<<< Utility Name

Washington State Utility

**Integrated Resource Plan Year**

**2016**

Prepared by:

Ian Hunter

Estimate Year	Base Year			5 Year Estimate			10 Year Estimate		
	Period	2015		2020			2025		
Units	Winter (MW)	Summer (MW)	Annual (MWa)	Winter (MW)	Summer (MW)	Annual (MWa)	Winter (MW)	Summer (MW)	Annual (MWa)
<b>Loads</b>	1,245.00	875.00	739.15			892.17			989.09
<b>Exports</b>	20.00	20.00							
<b>Resources:</b>									
Future Conservation/Efficiency						36.00			71.00
Demand Response									
Cogeneration	2.00	2.00	2.03			2.10			2.10
Hydro	100.00	28.00	46.54			36.30			36.30
Wind	3.00	90.00	48.61			54.10			41.60
Other Renewables			1.83						
Thermal - Natural Gas									
Thermal - Coal									
Net Long Term Contracts									33.00
Net Short Term Contracts	125.00	50.00	-164.69						
BPA	1,028.00	725.00	806.67			811.00			811.00
Other	7.00								
Imports									
Distributed Generation						5.04			6.29
Undecided									
<b>Total Resources</b>	1,265.00	895.00	740.99	0.00	0.00	944.54	0.00	0.00	1,001.29
<b>Load Resource Balance</b>	0.00	0.00	1.84	0.00	0.00	52.37	0.00	0.00	12.20

Date of Board/Commission Approval 10/15 (mm/yy)

**Notes: Explain resource choices other than conservation / Use of Renewable Energy Credits in planning/ Distributed Generation Sources**

- 1) Base year is based on 2015 actual data
- 2) 5 and 10 Year Estimates are derived from the 2015 IRP Update adopted by the Snohomish PUD Board of Commissioners on 10/5/15.
- 3) The 2015 IRP Update did not include a one hour peak analysis.

PUD #1 of Snohomish County

<<< Utility Name

- 4) For the Base Year, System Winter peak occurred on 12/30/15 hour ending 19:00; System Summer peak occurred on 6/29/15 hour ending 18:00.
- 5) "Loads" for the 5 and 10 Year Estimates are before new conservation and are at the total system level (i.e., retail sales + distribution line losses).
- 6) "Future Conservation/Efficiency" reflects new cumulative acquisition of Conservation as described in the 2015 Integrated Resource Plan.
- 7) Cogeneration consists of output from Hampton.
- 8) "Hydro" includes Jackson, Woods Creek, Youngs Creek and Packwood. Generation forecasted at Critical Water. The 5 and 10 year estimate also includes two new sm:
- 9) "Wind" includes the output associated with long term power purchase agreements for the White Creek, Wheat Field and Hay Canyon wind projects. Wind is forecast
- 10) "Distributed Generation" for the Base Year include the PUD Solar Express program; the 5 and 10 Year estimates reflects the forecast of Customer-Owned Generati
- 11) "Net Short Term Contracts" reflect the net quantities of Snohomish PUD's short-term balancing purchases (+) and sales (-).
- 12) "BPA" reflects the Snohomish PUD's long-term contract with BPA for the Block/Slice product. BPA generation is forecasted at critical water.
- 13) "BPA" consists of a Block product and a Slice Product. For 2015, the Block product provided 375 aMW and the Slice product provided 432 aMW.
- 14) "Net Long Term Contracts" includes the average annual energy component of a planned Winter Energy Product
- 15) "Other" consists of an Energy Imbalance payback that occurred during the peak hour.

Town of Steilacoom

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	4.43	4.73	4.85
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>			
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	4.43	4.73	4.85
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	4.43	4.73	4.85
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

City of Sumas

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	3.57	3.77	3.84
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.01	0.01
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	3.57	3.76	3.83
<i>BPA Tier 2</i>			S
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	3.57	3.77	3.84
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Tacoma Power

<<< Utility Name

Washington State Utility

**Integrated Resource Plan Year**

**2016**

Prepared by:

Tom Martin

Estimate Year	Base Year			5 Year Estimate			10 Year Estimate		
	Period	2015		2020			2025		
Units	Winter (MW)	Summer (MW)	Annual (MWa)	Winter (MW)	Summer (MW)	Annual (MWa)	Winter (MW)	Summer (MW)	Annual (MWa)
<b>Loads</b>	907.00		569.00			585.00			602.00
<b>Exports</b>									
<b>Resources:</b>									
Future Conservation/Efficiency						24.80			46.80
Demand Response									
Cogeneration									
Hydro	641.00		277.00			177.00			177.00
Wind									
Other Renewables									
Thermal - Natural Gas									
Thermal - Coal									
Net Long Term Contracts	4.00		32.00			32.00			11.00
Net Short Term Contracts									
BPA	529.00		419.00			399.00			399.00
Other									
Imports									
Distributed Generation									
Undecided									
<b>Total Resources</b>	1,174.00	0.00	728.00	0.00	0.00	632.80	0.00	0.00	633.80
<b>Load Resource Balance</b>	267.00	0.00	159.00	0.00	0.00	47.80	0.00	0.00	31.80

Date of Board/Commission Approval 12-16-2015 (mm/yy)

**Notes: Explain resource choices other than conservation / Use of Renewable Energy Credits in planning/ Distributed Generation Sources**

Tacoma Power

<<< Utility Name

- 1) Loads are from a revised forecast that was issued after the IRP was published
- 2) Tacoma Power does not face capacity constraints in the summer when yearly loads are lowest and operating capacities are highest
- 3) 2015 loads and resources are based upon actual values
- 4) 2020/25 resources are based upon critical water estimates
- 5) BPA values are from the 2015 IRP and do not reflect revised estimates
- 6) The actual average MWh load for 2015 is weather normalized, the peak MW load is the actual load

Tanner Electric

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	10.94	12.12	13.10
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.10	0.10
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	10.94	10.86	10.86
<i>BPA Tier 2</i>		0.16	0.15
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>		1.00	2.00
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	10.94	12.12	13.11
<b>Load Resource Balance</b>	0.00	0.00	0.01

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

Vera Water and Power

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

Kevin Wells

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2016	2021	2026
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	25.44	27.60	28.39
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>			
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	25.44	26.60	26.39
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>	0.00	1.00	2.00
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	25.44	27.60	28.39
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

June-16 (mm/yy)

**Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan**

Market purchases are the most flexible and lowest cost resource right now. As you can see we may be facing declining loads and have not committed for any new resources beyond the current BPA rate purchase period.

Wahkiakum County PUD No. 1

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

BPA

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	2015	2020	2025
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	4.64	4.91	4.91
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.02	0.02
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	4.64	4.89	4.89
<i>BPA Tier 2</i>			
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	4.64	4.91	4.91
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

(mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan

P.U.D. No.1 of Whatcom County

<< Utility Name

Washington State Utility Resource Plan Year

2016

Prepared by:

Brian Walters

	<i>Base Year</i>	<i>5 Yr. Est.</i>	<i>10 Yr Est.</i>
<i>Estimate Year</i>	<i>BPA FY 2015</i>		
<i>Period</i>	<i>Annual</i>	<i>Annual</i>	<i>Annual</i>
<i>Units</i>	<i>(MWa)</i>	<i>(MWa)</i>	<i>(MWa)</i>
<b>Loads</b>	25.12	26.78	26.98
<b>Resources:</b>			
<i>Future Conservation/Efficiency</i>		0.60	0.60
<i>Demand Response</i>			
<i>BPA Tier 1 (include BPA PF)</i>	25.12	26.18	26.38
<i>BPA Tier 2</i>	0.00	0.00	0.00
<b>Non BPA:</b>			
<i>Co-generation</i>			
<i>Hydro (critical water)</i>			
<i>Wind</i>			
<i>Other Renewables</i>			
<i>Thermal-Natural Gas</i>			
<i>Thermal-Coal</i>			
<i>Market Purchase (non BPA)</i>			
<i>Other</i>			
<i>Distributed Generation</i>			
<i>Undecided</i>			
<b>Total Resources</b>	25.12	26.78	26.98
<b>Load Resource Balance</b>	0.00	0.00	0.00

Date of Board/Commission Approval

September-16 (mm/yy)

Notes: Explain resource choices other than conservation / Use of renewable energy credits in plan