Electric Utility Integrated Resource Plan Data Summaries and Narratives for Washington State Electric Utilities with 25,000 or more customers

Avista Utilities

<<< Utility Name

Washington State Utility

Integrated Resource Plan Year **2014**

Prepared by: Avista Utilities

	Base Year			5 Year Estimate			10 Year Estimate		
Estimate Year		**2012**			**2017**			**2022**	
Period	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**
Units	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**
Loads	1,554.00	1,579.00	1,075.00	1,752.37	1,755.92	1,742.10	1,877.85	1,886.40	1,853.10
Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Resources:									
Future Conservation/Efficiency				39.37	42.92	29.10	94.85	103.40	70.10
Demand Response				0.00	0.00	0.00	0.00	0.00	0.00
Cogeneration	51.00	51.00	48.00	0.00	0.00	0.00	0.00	0.00	0.00
Hydro	1,004.00	958.00	581.74	955.00	887.00	495.00	920.00	880.00	481.00
Wind	0.00	0.00	7.00	0.00	0.00	40.00	0.00	0.00	40.00
Other Renewables	47.00	47.00	23.81	47.00	47.00	21.74	47.00	47.00	21.74
Thermal - Natural Gas	868.00	706.00	269.88	868.45	692.45	634.53	868.45	692.45	631.45
Thermal - Coal	222.00	222.00	147.84	222.00	222.00	189.88	222.00	222.00	187.81
Net Long Term Contracts			137.84	27.00	28.00	28.00	27.00	18.00	25.00
Net Short Term Contracts			-26.44	0.00	0.00	0.00	0.00	0.00	0.00
BPA	82.00	0.00	43.00	82.00	0.00	42.00	0.00	0.00	0.00
Other	0.00	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
Total Resources	2,274.00	1,984.00	1,232.67	2,240.82	1,919.37	1,480.24	2,179.30	1,962.85	1,457.10
Load Resource Balance	720.00	405.00	157.67	488.45	163.45	-261.86	301.45	76.45	-396.00

Date of Board/Commission Approval March-14 (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 66% to show the Washington only portion.

Benton PUD

<<< Utility Name

Washington State Utility

Integrated Resource Plan Year **2014**

Prepared by: AW

	Base Year			5 Year Estimate			10 Year Estimate		
Estimate Year		**2013**			**2018**			**2023**	
Period	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**
Units	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**
Loads	265.00	414.53	202.46	354.58	438.04	214.04	372.12	457.60	227.72
Exports									
Resources:									
Future Conservation/Efficiency				7.35	7.35	7.35	15.51	15.51	15.51
Demand Response									
Cogeneration									
Hydro	0.91	4.00	1.55	1.50	1.50	1.31	1.50	1.50	1.31
Wind	12.00	0.00	4.86	0.95	0.95	5.67	0.95	0.95	5.67
Other Renewables									
Thermal - Natural Gas	0.00	46.00	19.00	50.00	50.00	45.83	0.00	0.00	0.00
Thermal - Coal									
Net Long Term Contracts									
Net Short Term Contracts									
BPA	269.00	298.00	216.31	251.00	288.00	204.59	251.00	288.00	204.59
Other									
Imports									
Distributed Generation									
Undecided									
Total Resources	281.91	348.00	241.72	310.80	347.80	264.75	268.96	305.96	227.08
Load Resource Balance	16.91	-66.53	39.27	-43.78	-90.24	50.71	-103.16	-151.64	-0.64

Date of Board/Commission Approval August-14 (mm/yy)

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

1) Line 10: Base case load is actual load and not weather adjusted; 2) Wind at 5% of rated capacity; 3) Thermal resource contract expires in August 2022; 4) Benton's CHWM currently exceeds load requirements, Benton's load will grow in CHWM in about 2017; 5)2013 actual hydro generation is the FY2013 winter average generation

PUD No. 1 of Chelan County <<< Utility Name

Washington State Utility

Integrated Resource Plan Year **2014**

Prepared by: Becky King

	Base Year			5 Year Estimate			10 Year Estimate		
Estimate Year		**2013**			**2019**			**2024**	
Period	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**
Units	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**
Loads	429.00	233.00	185.78	475.30	247.87	200.53	520.02	261.32	213.70
Exports									
Resources:									
Future Conservation/Efficiency				12.29	8.99	7.33	24.64	17.86	14.57
Demand Response				20.00	20.00	0.00	20.00	20.00	0.00
Cogeneration									
Hydro	454.00	306.00	195.00	858.00	564.00	361.00	858.00	564.00	361.00
Wind	0.00	0.03	2.14	2.21	0.37	2.22	2.21	0.37	2.22
Other Renewables									
Thermal - Natural Gas									
Thermal - Coal									
Net Long Term Contracts									
Net Short Term Contracts									
BPA									
Other									
Imports									
Distributed Generation									
Undecided									
Total Resources	454.00	306.03	197.14	892.50	593.36	370.55	904.85	602.23	377.79
Load Resource Balance	25.00	73.03	11.36	417.20	345.49	170.02	384.83	340.91	164.09

Date of Board/Commission Approval July-14 (mm/yy)

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

The cover sheet and notes are included in Chelan PUD's 2014 Progress Report as Appendix B. Chelan PUD's 2014 Progress can be found at http://www.chelanpud.org/IRP.html.

PUD #1 of Clallam County << Utility Name

Washington State Utility Resource Plan Year **2014**

Prepared by: **Tyler King**

	Base Year	*5 Yr. Est.*	*10 Yr Est.*
Estimate Year	*2012*	*2019*	*2024*
Period	***Annual***	***Annual***	***Annual***
Units	***(MWa)***	***(MWa)***	***(MWa)***
Loads	73.49	83.48	89.59
Resources:			
Future Conservation/Efficiency		3.19	7.11
Demand Response			
BPA Tier 1 (include BPA PF)	72.82	74.88	74.88
BPA Tier 2		4.74	6.93
Non BPA:			
Co-generation			
Hydro (critical water)	0.67	0.67	0.67
Wind			
Other Renewables			
Thermal-Natural Gas			
Thermal-Coal			
Market Purchase (non BPA)			
Other			
Distributed Generation			
Undecided			
Total Resources	73.49	83.48	89.59
Load Resource Balance	0.00	0.00	0.00

Date of Board/Commission Approval August-14 (mm/yy)

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

The base year 2012 is weather normalized actual load. The 2019 and 2024 load forecasts are based on 2013 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 **2014**

Prepared by:

	Base Year			5 Year Estimate			10 Year Estimate		
Estimate Year		**2013**			**2018**			**2023**	
Period	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**
Units	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**
Loads	918.00	712.00	508.60	1,019.00	762.00	549.00	1,096.00	808.00	582.00
Exports									
Resources:									
Future Conservation/Efficiency				38.00	16.00	27.00	83.00	35.00	57.00
Demand Response									
Cogeneration									
Hydro	3.00	3.00	1.96	3.00	3.00	1.00	3.00	3.00	1.00
Wind	0.00	0.00	17.17	0.00	0.00	18.00	0.00	0.00	18.00
Other Renewables									
Thermal - Natural Gas	250.00	250.00	197.47	250.00	250.00	225.00	250.00	250.00	225.00
Thermal - Coal									
Net Long Term Contracts									
Net Short Term Contracts				220.00	89.00		252.00	116.00	
BPA	708.00	479.00	346.60	508.00	404.00	296.00	508.00	404.00	300.00
Other									
Imports									
Distributed Generation									
Undecided									
Total Resources	961.00	732.00	563.20	1,019.00	762.00	567.00	1,096.00	808.00	601.00
Load Resource Balance	43.00	20.00	54.60	0.00	0.00	18.00	0.00	0.00	19.00

Date of Board/Commission Approval August-14 (mm/yy)

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

Base year load is weather normalized. Base year annual average resources are actual. Base Year Peak resources are adjusted for weather normalization. The 18.00 MWa of "Wind" shown in 2018 and 2023 is equal to the projected generation from the Combine Hills II project of which Clark PUD has purchased the entire output via a 20-year power purchase agreement with Eurus. Clark PUD's action plan includes studying the utilities long-term capacity needs to determine the best fit capacity resource(s) to serve the PUD's capacity requirements. Forecast Short Term Contract capacity shown in 2018 and 2023 may include a combination of short-term market purchases, peaking resources, hedge products and/or surplus Slice energy if available.

Cowlitz PUD

<<< Utility Name

Washington State Utility

Integrated Resource Plan Year **2014**

Prepared by: CRJ

	Base Year			5 Year Estimate			10 Year Estimate		
Estimate Year		**2013**			**2018**			**2023**	
Period	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**
Units	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**
Loads	741.62	628.19	583.94	871.63	701.04	650.49	902.75	719.35	670.72
Exports									
Resources:									
Future Conservation/Efficiency				4.90	4.90	4.90	17.38	17.38	17.38
Demand Response									
Cogeneration									
Hydro	78.00	78.00	14.86	78.00	78.00	14.60	78.00	78.00	14.60
Wind	0.00	0.00	35.54	0.00	0.00	36.00	0.00	0.00	36.00
Other Renewables									
Thermal - Natural Gas									
Thermal - Coal									
Net Long Term Contracts									
Net Short Term Contracts									
BPA	751.00	751.00	618.02	751.00	751.00	558.00	751.00	751.00	558.00
Other				24.00	24.00	24.00	24.00	24.00	24.00
Imports									
Distributed Generation									
Undecided									
Total Resources	829.00	829.00	668.42	857.90	857.90	637.50	870.38	870.38	649.98
Load Resource Balance	87.38	200.81	84.49	-13.73	156.86	-12.99	-32.37	151.03	-20.73

Date of Board/Commission Approval August-14 (mm/yy)

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

- 2013 load is not weather adjusted.
- For 2018 and 2023 energy balance, hydro and slice generation is assumed to be critical.
- For 2018 and 2023 capacity balance, hydro generation is assumed to be at maximum capacity. Slice generation is assumed to have a system maximum generation capability of 12,500 MW.
- For 2018 and 2023 energy balance, wind resources are assumed to generate at an annual capacity factor of 33%.
- For capacity balance, wind resources are assumed to not generate for the hour.

Public Utility District No. 2 of Grant Co.

<<< Utility Name

Washington State Utility

Integrated Resource Plan Year **2014**

Prepared by: Keith Knitter

	Base Year			5 Year Estimate			10 Year Estimate		
Estimate Year		**2015**			**2020**			**2025**	
Period	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**
Units	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**
Loads	685.00	723.00	507.00	792.00	828.00	583.00	847.00	887.00	624.00
Exports	396.00	397.00	131.00	121.00	122.00	51.00	121.00	122.00	51.00
Resources:									
Future Conservation/Efficiency						2.00			2.00
Demand Response									
Cogeneration									
Hydro	1,044.00	1,057.00	529.00	1,044.00	1,057.00	529.00	1,044.00	1,057.00	529.00
Wind			3.00			3.00			3.00
Other Renewables									
Thermal - Natural Gas									
Thermal - Coal									
Net Long Term Contracts									
Net Short Term Contracts									
BPA	9.00	4.00	5.00	9.00	4.00	5.00	9.00	4.00	5.00
Other									
Imports			99.00			95.00			136.00
Distributed Generation									
Undecided			2.00						
Total Resources	1,053.00	1,061.00	638.00	1,053.00	1,061.00	634.00	1,053.00	1,061.00	675.00
Load Resource Balance	-28.00	-59.00	0.00	140.00	111.00	0.00	85.00	52.00	0.00

Date of Board/Commission Approval August-14 (mm/yy)

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

See the Grant PUD's Commission Resolution approving the 2014 IRP with supporting documentation for more information submitted with this Cover Sheet to the Department of Commerce.

Grays Harbor County PUD

<<< Utility Name

Washington State Utility

Integrated Resource Plan Year **2014**

Prepared by: AW

	Base Year			5 Year Estimate			10 Year Estimate		
Estimate Year		**2013**			**2018**			**2023**	
Period	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**
Units	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**
Loads	217.23	115.86	130.51	243.13	160.13	132.83	247.35	162.35	136.44
Exports									
Resources:									
Future Conservation/Efficiency				3.13	3.13	3.13	7.35	7.35	7.35
Demand Response									
Cogeneration				11.00	11.00	11.00	11.00	11.00	11.00
Hydro									
Wind	8.00	2.00	10.60	0.00	0.00	6.00	0.00	0.00	6.00
Other Renewables									
Thermal - Natural Gas	0.00	41.00	24.17	45.00	45.00	33.75			
Thermal - Coal									
Net Long Term Contracts									
Net Short Term Contracts									
BPA	224.09	180.58	149.63	180.00	150.00	129.70	180.00	150.00	129.09
Other									
Imports									
Distributed Generation									
Undecided									
Total Resources	232.09	223.58	184.40	239.13	209.13	183.58	198.35	168.35	153.44
Load Resource Balance	14.86	107.72	53.90	-4.00	49.00	50.75	-49.00	6.00	17.00

Date of Board/Commission Approval August-14 (mm/yy)

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

- Base year loads are not weather adjusted
- Hydro resources based on a critical water year (1937 reference year)
- Wind based on a 30% capacity factor

Inland Power and Light << Utility Name

Washington State Utility Resource Plan Year **2014**

Prepared by: **John Francisco**

	Base Year	***5 Yr. Est.***	***10 Yr Est.***
Estimate Year	*2012*	*2017*	*2022*
Period	***Annual***	***Annual***	***Annual***
Units	***(MWa)***	***(MWa)***	***(MWa)***
Loads	106.28	113.28	120.15
Resources:			
Future Conservation/Efficiency		1.10	1.25
Demand Response			
BPA Tier 1 (include BPA PF)	104.69	108.19	108.19
BPA Tier 2	1.59	3.99	5.35
Non BPA:			
Co-generation			
Hydro (critical water)			
Wind			
Other Renewables			
Thermal-Natural Gas			
Thermal-Coal			
Market Purchase (non BPA)			5.36
Other			
Distributed Generation			
Undecided			
Total Resources	106.28	113.28	120.15
Load Resource Balance	0.00	0.00	0.00

Date of Board/Commission Approval July-14 (mm/yy)

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

For the 2014 Resource Plan, Inland Power is assuming that in 2017 its Above High Water Mark (AHWM) load (net of conservation) will be served with BPA Tier 2 market power. For 2022, the plans placeholder assumption is that AHWM load (net of conservation) will be served with market power purchases, 50% from BPA and 50% from non-BPA suppliers. Inland will continue to conduct Conservation Potential Assessments to ensure all cost effective conservation is identified and maintain a robust set of programs designed to acquire identified potential. Resource investigations to be conducted in late 2014 and 2015, will likely change the assumption for 2022 and beyond as those investigations will provide additional information regarding market power indicative prices as well as the likely cost, risks, availability, generating performance characteristics and other factors related to new renewable and non-renewable generating resources. Inland Power is assuming that it will use Renewable Energy Credits (RECs) through at least 2022 for the majority of its Energy Independence Act (RCW 19.285) compliance obligation

Public Utility District No. 1 of Lewis County <<< Utility Name

Washington State Utility

Integrated Resource Plan Year **2014**

Prepared by: Lewis PUD

	Base Year			5 Year Estimate			10 Year Estimate		
Estimate Year		**2013**			**2018**			**2023**	
Period	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**
Units	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**
Loads	214.70	129.00	107.90	216.00	131.00	109.89	218.70	132.50	111.27
Exports	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Resources:									
Future Conservation/Efficiency				4.98	4.98	2.19	8.93	8.93	3.57
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	3.72	1.73	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	14.00	0.00	0.00	11.00	0.00	0.00	10.00	0.00	0.00
BPA	188.00	161.00	127.00	188.00	161.00	109.06	188.00	161.00	115.43
Other	0.00	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
Total Resources	214.83	172.43	136.44	216.27	177.67	119.61	219.22	181.62	127.36
Load Resource Balance	0.13	43.43	28.54	0.27	46.67	9.72	0.52	49.12	16.09

Date of Board/Commission Approval August-14 (mm/yy)

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

REC Planning - Lewis PUD has adiquate REC entitlements through 2020 using the load calculation. The impact of the 4% cost cap has yet to be determined and as such the District is waiting for further legal clarity before making any forward long term power purchases. DG - The current and future forecasted impact of DG resources on the District do not warrent including them as a resource at this time. Hydro - Packwood, Mill Creek, Burton Creek. Wind - 9 Canyon and White Creek Wind. BPA - Block and Slice. Conservation - consistent with the Districts most recent CPA.

Mason County PUD No.3 << Utility Name

Washington State Utility Resource Plan Year **2014**

Prepared by: **Matt Samuelson, Power Supply Manager**

	Base Year	***5 Yr. Est.***	***10 Yr Est.***
Estimate Year	*2013*	*2018*	*2023*
Period	***Annual***	***Annual***	***Annual***
Units	***(MWa)***	***(MWa)***	***(MWa)***
Loads	79.36	81.75	83.62
Resources:			
Future Conservation/Efficiency		0.35	0.33
Demand Response			
BPA Tier 1 (include BPA PF)	77.92	79.30	79.30
BPA Tier 2			1.89
Non BPA:			
Co-generation			
Hydro (critical water)	0.66	0.66	0.66
Wind	0.76	1.42	1.42
Other Renewables			
Thermal-Natural Gas			
Thermal-Coal			
Market Purchase (non BPA)			
Other			
Distributed Generation	0.02	0.02	0.02
Undecided			
Total Resources	79.36	81.75	83.62
Load Resource Balance	0.00	0.00	0.00

Date of Board/Commission Approval August-14 (mm/yy)

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

Distributed Generation is utility solar p.v.

Pacific Power and Light (PacifiCorp)

<<< Utility Name

Washington State Utility

Integrated Resource Plan Year **2014**

Prepared by: Michael Liljenwall

	Base Year			5 Year Estimate			10 Year Estimate		
Estimate Year		**2014**			**2019**			**2024**	
Period	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**
Units	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**
Loads		696.76	504.29		760.4	533.0		788.67	553.33
Exports		79.12	35.37		59.5	24.3		16.11	12.81
Resources:									
Future Conservation/Efficiency					36.95	24.51		53.79	35.83
Demand Response					23.87	0.00		22.83	0.00
Cogeneration		1.21	1.12		0.55	0.54		0.90	0.88
Hydro		69.54	40.60		64.86	37.78		54.62	29.96
Wind		6.97	50.63		7.43	54.20		6.14	51.57
Other Renewables		7.19	5.05		5.68	7.63		5.14	7.00
Thermal - Natural Gas		217.93	71.24		267.86	108.77		256.20	132.62
Thermal - Coal		452.83	387.77		381.76	334.20		364.26	317.41
Net Long Term Contracts		6.67	21.91		6.68	21.25		0.89	11.24
Net Short Term Contracts		45.24	5.10		84.14	10.57		102.07	12.82
BPA		0.00	0.00		0.00	0.00		0.00	0.00
Other		8.67	0.00		10.53	0.00		10.07	0.00
Imports		50.47	28.61		20.65	6.23		19.75	4.39
Distributed Generation		0.18	0.13		0.91	0.65		1.60	1.11
Undecided		0.00	0.00		0.00	0.00		0.00	0.00
Total Resources	0.00	866.90	612.18	0.00	911.86	606.32	0.00	898.23	604.84
Load Resource Balance	0.00	91.01	72.52	0.00	91.93	49.03	0.00	93.45	38.70

Date of Board/Commission Approval November-13 (mm/yy)

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

- Information is based on the 2013 Integrated Resource Plan Update filed with the Washington Utilities and Transportation Commission on March 31, 2014.
- 2013 IRP Acknowledgement Letter was issued on November 11, 2013.
- Line 13 & 14: PacifiCorp 2014 Load shown incorporates energy efficiency / demand response as projected in its 2013 IRP Update. For 2019 and 2024 the values are not incorporated in the load forecast shown. The values for 2014 incorporated in the Loads are:
  - Line 13: Future Conservation / Efficiency = 12.3 MW, 7.9 MWa
  - Line 14: Demand Response = 24.2 MW, 0.0 MWa

Peninsula Light << Utility Name

Washington State Utility Resource Plan Year **2014**

Prepared by: **Sharon Silver**

	Base Year	***5 Yr. Est.***	***10 Yr Est.***
Estimate Year	*2013*	*2018*	*2023*
Period	***Annual***	***Annual***	***Annual***
Units	***(MWa)***	***(MWa)***	***(MWa)***
Loads	69.43	73.28	76.67
Resources:			
Future Conservation/Efficiency		0.33	0.50
Demand Response			
BPA Tier 1 (include BPA PF)	69.43	70.91	70.91
BPA Tier 2		1.00	1.00
Non BPA:			
Co-generation			
Hydro (critical water)			
Wind		1.04	4.26
Other Renewables			
Thermal-Natural Gas			
Thermal-Coal			
Market Purchase (non BPA)			
Other			
Distributed Generation			
Undecided			
Total Resources	69.43	73.28	76.67
Load Resource Balance	0.00	0.00	0.00

Puget Sound Energy

<<< Utility Name

Washington State Utility

Integrated Resource Plan Year **2014**

Prepared by: Phillip Popoff

	Base Year			5 Year Estimate			10 Year Estimate		
Estimate Year		**2014**			**2019**			**2024**	
Period	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**
Units	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**
Loads	4,922.26	3,167.24	2,643.91	5,423.23	3,602.71	2,956.70	5,963.22	4,076.87	3,290.75
Exports	35.74	335.74	70.08	21.26	321.26	68.10	0.00	318.90	63.15
Resources:									
Future Conservation/Efficiency				390.62	249.63	242.22	703.13	468.62	473.30
Demand Response				80.12			116.43		
Cogeneration									
Hydro	914.12	829.44	522.78	878.60	793.92	508.71	863.79	779.12	518.98
Wind	82.19	82.19	251.29	82.19	82.19	251.29	82.19	82.19	251.29
Other Renewables									
Thermal - Natural Gas	2,024.00	1,571.70	1,107.39	2,024.00	1,571.70	1,107.39	2,024.00	1,571.70	1,107.39
Thermal - Coal	591.51	591.51	565.25	591.51	591.51	565.25	591.51	591.51	565.25
Net Long Term Contracts	402.44	19.71	87.91	432.19	422.20	408.34	418.19	406.62	395.69
Net Short Term Contracts	1,617.69	1,605.75		1,672.85	1,634.90		1,666.02	1,646.98	
BPA									
Other									
Imports	383	83	73	308	8	49	308	8	49
Distributed Generation									
Undecided									
Total Resources	6,014.96	4,783.29	2,607.92	6,460.07	5,354.04	3,131.83	6,773.26	5,554.73	3,360.53
Load Resource Balance	1,056.96	1,280.31	-106.07	1,015.59	1,430.08	107.03	810.05	1,158.96	6.63

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.

Seattle City Light <<< Utility Name

Washington State Utility

Integrated Resource Plan Year **2014**

Prepared by: D. Clement

	Base Year			5 Year Estimate			10 Year Estimate		
Estimate Year		**2014**			**2019**			**2024**	
Period	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**
Units	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**
Loads			1,148.00			1,228.00			1,330.00
Exports			37.00			0.00			0.00
Resources:									
Future Conservation/Efficiency						70.00			140.00
Demand Response									
Cogeneration			2.45			2.45			2.45
Hydro			709.00			736.00			729.00
Wind			47.00			47.00			0.00
Other Renewables			12.00			12.00			42.00
Thermal - Natural Gas									
Thermal - Coal									
Net Long Term Contracts									
Net Short Term Contracts									
BPA			553.00			554.00			552.00
Other									
Imports			37.00						0.00
Distributed Generation									
Undecided									
Total Resources	0.00	0.00	1,360.45	0.00	0.00	1,421.45	0.00	0.00	1,465.45
Load Resource Balance	0.00	0.00	175.45	0.00	0.00	193.45	0.00	0.00	135.45

Date of Board/Commission Approval July-14 (mm/yy)

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

Line 10: Loads for 2019 and 2024 are before new conservation / energy efficiency.
Line 16: Hydro efficiencies account for the 2019 hydro increase, while the end of a hydro contract accounts for the 2024 decrease.
Line 18: A planned wood biomass resource is added in 2024. The resource is added to maintain the LOLP target adopted by IRP Stakeholders and SCL..

PUD No. 1 of Snohomish County <<< Utility Name

Washington State Utility

Integrated Resource Plan Year **2014**

Prepared by: Zac Yanez

	Base Year			5 Year Estimate			10 Year Estimate		
Estimate Year		**2013**			**2018**			**2023**	
Period	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**
Units	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**
Loads	1,481.00	872.00	779.00			866.52			956.94
Exports	20.00	180.00	184.27						
Resources:									
Future Conservation/Efficiency						35.43			73.00
Demand Response						0.00			0.00
Cogeneration	0.00	0.00	0.00			0.00			0.00
Hydro	99.00	8.00	56.10			37.20			37.20
Wind	6.00	134.00	56.22			55.70			55.70
Other Renewables	2.00	2.00	4.09			0.00			0.00
Thermal - Natural Gas			0.00			0.00			0.00
Thermal - Coal			0.00			0.00			0.00
Net Long Term Contracts									
Net Short Term Contracts	298.00	13.00				-67.60			-17.06
BPA	1,096.00	895.00	858.64			811.00			811.00
Other			-11.94			-8.51			-8.51
Imports									
Distributed Generation			0.16			3.30			5.60
Undecided									
Total Resources	1,501.00	1,052.00	963.27	0.00	0.00	866.52	0.00	0.00	956.93
Load Resource Balance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Date of Board/Commission Approval 11/13 (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 2013 actual data
2) 5 and 10 Year Estimates are derived from the 2013 IRP adopted by the Snohomish PUD Board of Commissioners on 11/19/13.
3) The 2013 IRP did not include a one hour peak analysis.
4) For the Base Year, System Winter peak occurred on 12/9/13 hour ending 18:00; System Summer peak occurred on 9/30/13 hour ending 20:00.
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 the assessment of the 2013 Integrated Resource Plan (adopted 11/19/13).
7) "Hydro" includes Jackson, Woods Creek, Youngs Creek and Packwood. The 5 and 10 year estimate also includes two new small hydro resources.
8) "Wind" includes the output associated with long term power purchase agreements for the White Creek, Wheat Field and Hay Canyon wind projects.
9) "Other Renewables" for the Base Year include the output via long-term contract from Hampton (biomass) and Klickitat (landfill gas) projects.
10) "Other Renewables" for 5 and 10 Year estimates reflect the forecast include din the 2013 Integrated Resource Plan.
11) "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
12) "Net Short Term Contracts" reflect the net quantities of Snohomish PUD's short-term balancing purchases (+) and sales (-).
13) "BPA" reflects the Snohomish PUD's long-term contract with BPA for the Block/Slice product.
14) "Other" reflects regional transmission line losses (1.9%).

Tacoma Power

<<< Utility Name

Washington State Utility

Integrated Resource Plan Year **2014**

Prepared by: Tom Martin

	Base Year			5 Year Estimate			10 Year Estimate		
Estimate Year		**2013**			**2018**			**2023**	
Period	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**	**Winter**	**Summer**	**Annual**
Units	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**	**(MW)**	**(MW)**	**(MWa)**
Loads	980.00		572.00			626.70			679.00
Exports									
Resources:									
Future Conservation/Efficiency						22.00			41.30
Demand Response									
Cogeneration									
Hydro	625.00		300.60			176.60			176.60
Wind									
Other Renewables									
Thermal - Natural Gas									
Thermal - Coal									
Net Long Term Contracts	5.00		33.00			29.50			29.50
Net Short Term Contracts									
BPA	557.00		428.80			401.40			401.40
Other									
Imports									
Distributed Generation									
Undecided									
Total Resources	1,187.00	0.00	762.40	0.00	0.00	629.50	0.00	0.00	648.80
Load Resource Balance	207.00	0.00	190.40	0.00	0.00	2.80	0.00	0.00	-30.20

Date of Board/Commission Approval 12-18-2013 (mm/yy)

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

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) 2013 loads and resources are based upon actual values
4) 2018/23 resources are based upon critical water estimates
5) BPA values are from the 2013 IRP and do not reflect revised estimates
6) The actual average MWh load for 2013 is weather normalized, the peak MW load is the actual load

Electric Utility Integrated Resource Plan Data Summaries and Narratives
For Washington State Electric Utilities with 25,000 or more customers

Web links to are provided for utility-posted narratives, where available.
Utilities served fully by BPA have the option to complete Resource Plans (instead of IRPs) which do not account for peak loads.

Utility	**Data Summary** (cover sheet submitted to Commerce)	**Narrative** (posted at Utility Website)
Puget Sound Energy Inc.	data summary	narrative
City of Seattle	data summary	narrative
PUD No 1 of Snohomish County	data summary	narrative
Avista	data summary	narrative
PUD No 1 of Clark County	data summary	narrative
City of Tacoma, Tacoma Public Utilities	data summary	narrative
PacifiCorp	data summary	narrative
PUD No 1 Benton County	data summary	narrative
PUD No 1 of Cowlitz County	data summary	narrative
PUD No 1 of Chelan County	data summary	narrative
PUD No 2 of Grant County	data summary	
PUD No 1 Grays Harbor County	data summary	narrative
Inland Power & Light Company	data summary	
PUD No 3 of Mason County	data summary	
PUD No 1 of Lewis County	data summary	narrative
Peninsula Light Company	data summary	narrative
PUD No 1 of Clallam County	data summary	