

Sort Order	Year	Facility / Firm	Type	Primary / S Fuel (Prima
3568	2017	Colstrip - Energy Imbalance	EIM Purchases	Secondary System
3570	2017	Encogen	EIM Purchases	Secondary System
3571	2017	Ferndale Co-Generation	EIM Purchases	Secondary System
3572	2017	Freddie #1	EIM Purchases	Secondary System
3573	2017	Fredonia - Energy Imbalance	EIM Purchases	Secondary System
3574	2017	Fredrickson 1 & 2	EIM Purchases	Secondary System
3575	2017	Goldendale	EIM Purchases	Secondary System
3576	2017	Lower Baker	EIM Purchases	Secondary System
3578	2017	Mint Farm	EIM Purchases	Secondary System
3579	2017	Snoqualmie-Energy Imbalance	EIM Purchases	Secondary System
3580	2017	Sumas	EIM Purchases	Secondary System
3581	2017	Upper Baker	EIM Purchases	Secondary System
3582	2017	Whitehorn 2&3	EIM Purchases	Secondary System
3583	2017	Wild Horse (W183)	EIM Purchases	Secondary System
3684	2017	Encogen	EIM Sales	Secondary System
3685	2017	Ferndale Co-Generation	EIM Sales	Secondary System
3686	2017	Fredonia - Energy Imbalance	EIM Sales	Secondary System
3687	2017	Fredrickson 1 & 2	EIM Sales	Secondary System
3688	2017	Goldendale	EIM Sales	Secondary System
3690	2017	Mint Farm	EIM Sales	Secondary System
3691	2017	Sumas	EIM Sales	Secondary System
3692	2017	Upper Baker	EIM Sales	Secondary System
3693	2017	Whitehorn 2&3	EIM Sales	Secondary System
3694	2017	Wild Horse (W183)	EIM Sales	Secondary System

Facility / Fti MWh	lbs CO2/MWh	Short Tons CO2	Metric Tons (CO2, not CO2e)
Colstrip - E1 105,631	1,004	53,027	48,105
Encogen 14,545	1,004	7,302	6,624
Ferndale C 103,133	1,004	51,773	46,967
Freddie #1 214	1,004	108	98
Fredonia - I 35,545	1,004	17,843	16,187
Fredricksor 11,113	1,004	5,579	5,061
Goldendale 43,249	1,004	21,711	19,696
Lower Bake 2,626	1,004	1,318	1,196
Mint Farm 33,602	1,004	16,868	15,303
Snoqualmie 1,788	1,004	898	814
Sumas 31,838	1,004	15,983	14,499
Upper Bake 94,807	1,004	47,593	43,176
Whitehorn 19,279	1,004	9,678	8,780
Wild Horse 49,547	1,004	24,873	22,564
Encogen -12,822	1,004	-6,437	-5,839
Ferndale C -32,912	1,004	-16,522	-14,988
Fredonia - I -27,334	1,004	-13,722	-12,448
Fredricksor -4,300	1,004	-2,158	-1,958
Goldendale -84,238	1,004	-42,288	-38,363
Mint Farm -50,361	1,004	-25,281	-22,935
Sumas -7,309	1,004	-3,669	-3,329
Upper Bake -26,009	1,004	-13,057	-11,845
Whitehorn -5,563	1,004	-2,793	-2,534
Wild Horse -56,042	1,004	-28,133	-25,522

el Mix Report (per WUTC April 2018):

1004 lbs CO2 per MWh

WA Department of Commerce Fuel Mix Report
PSE Own + Firm PPA (5.4.18):

1004.0
1092.3

Row Labels	Sum of MWh	PSE Owned	Sum of MWh
Avista Corp. WWP Division	55,283	No	55,283
Avista Nichols Pump	21,065	No	21,065
Black Hills Power	-2,600	No	-2,600
BP Energy Co.	217,861	No	217,861
BPA	98,054	No	98,054
BPA - CA Wind Integration	22,037	No	22,037
BPA - NWPP Reserve Sharing Energy	159	No	159
BPA - PTP Transactions	86,309	No	86,309
BPA - SCD Hourly NF	17,365	No	17,365
BPA - Spin Reserv Requirement	38,849	No	38,849
BPA IS - Hourly Non-Firm	8,707	No	8,707
British Columbia Transmission Corp	409	No	409
CAISO EESC Load Undistributed Costs	33,125	No	33,125
CAISO PRSC Undistributed Costs	-8,713	No	-8,713
California ISO	23,659	No	23,659
Calpine Energy Services	-252,611	No	-252,611
Cargill Power Markets	157,955	No	157,955
Chelan County PUD #1	-52,667	No	-52,667
Citigroup Energy Inc	312,832	No	312,832
Clark Public Utilities	-2,830	No	-2,830
Clatskanie PUD	-7,310	No	-7,310
Colstrip - Energy Imbalance Market	105,631	Yes	105,631
Conoco, Inc.	-8,000	No	-8,000
Deviation	-25,311	No	-25,311
Douglas County PUD #1	212,117	No	212,117
Douglas PUD - Wells Project	20,574	No	20,574
EDF Trading NA LLC	475,784	No	475,784
Encogen	1,723	Yes	1,723
Energy Keepers Inc.	60	No	60
ENMAX Energy Marketing, Inc.	-296	No	-296
Eugene Water & Electric	-63,712	No	-63,712
Exelon Generation Co LLC	149,950	No	149,950
Ferndale Co-Generation	70,221	Yes	70,221
Freddie #1	214	Yes	214
Fredonia - Energy Imbalance Market	8,211	Yes	8,211
Fredrickson 1 & 2	6,813	Yes	6,813
Goldendale	-40,989	Yes	-40,989
Grant County PUD #2	-4	No	-4
GRIDFORCE ENERGY MANAGEMENT, LLC.	-202	No	-202
Iberdrola Renewables (PPM Energy)	731,570	No	731,570
Idaho Power Company	-40,797	No	-40,797
J. Aron & Company	30,000	No	30,000
Lower Baker	2,626	Yes	2,626

MID-C for Energy Imbalance Market	110,531	No	110,531
Mint Farm	-16,758	Yes	-16,758
Morgan Stanley CG	513,602	No	513,602
Natur Ener USA	-211	No	-211
Nevada Power Company	-16	No	-16
NextEra Energy Power Marketing	4,000	No	4,000
Northwestern Energy	-15,807	No	-15,807
Okanogan PUD	26,026	No	26,026
Pacific Gas & Elec - Exchange	0	No	0
Pacificorp	-237,749	No	-237,749
Portland General Electric	-133,050	No	-133,050
Powerex Corp.	-1,371,536	No	-1,371,536
Public Service of Colorado	130,513	No	130,513
Rainbow Energy Marketing	-2,638	No	-2,638
Sacramento Municipal	139	No	139
Seattle City Light Marketing	132,196	No	132,196
Shell Energy (Coral Pwr)	-73,192	No	-73,192
Snohomish County PUD #1	12,341	No	12,341
Snoqualmie-Energy Imbalance Market	1,788	Yes	1,788
Sumas	24,529	Yes	24,529
Tacoma Power	30,313	No	30,313
Talen Energy (PPL Energy Plus)	221,765	No	221,765
Tenaska Power Services Co.	-3,000	No	-3,000
The Energy Authority	788,491	No	788,491
TransAlta Energy Marketing	-271,727	No	-271,727
TransCanada Energy Sales Ltd	-46,100	No	-46,100
Turlock Irrigation District	8,325	No	8,325
Upper Baker	68,798	Yes	68,798
Vitol Inc.	226,338	No	226,338
Whitehorn 2&3	13,715	Yes	13,715
Wild Horse (W183)	-6,495	Yes	-6,495
Williams Power Company	-3,928	No	-3,928
Grand Total	2,534,323		2,534,323

EIM Calculation Rules (PSE Units Only):

If sum is greater than zero, then PSE purchased power from CAISO. If the EIM sum is less than zero, then PSE had Power Cost Report: Generation data (owned) is the actual metered generation data.

EIM buys and sales are location specific purchases and sales. The difference between actual generation and base

lbs CO2 per MWh
lbs CO2 per MWh

Assigned Rate	Pounds of CO2	Short Tons (CO2 only)	Metric Tons (CO2 only)
1,004	55,504,132	27,752	25,176
1,004	21,148,899	10,574	9,593
1,092	-2,839,903	-1,420	-1,288
1,004	218,732,444	109,366	99,215
1,004	98,446,216	49,223	44,654
1,004	22,124,736	11,062	10,036
1,004	159,636	80	72
1,004	86,654,236	43,327	39,306
1,004	17,434,460	8,717	7,908
1,004	39,004,346	19,502	17,692
1,004	8,741,828	4,371	3,965
1,004	410,636	205	186
1,004	33,257,386	16,629	15,085
1,092	-9,516,703	-4,758	-4,317
1,004	23,753,636	11,877	10,774
1,092	-275,919,499	-137,960	-125,155
1,004	158,586,820	79,293	71,934
1,092	-57,526,601	-28,763	-26,094
1,004	314,083,328	157,042	142,466
1,092	-3,091,125	-1,546	-1,402
1,092	-7,984,496	-3,992	-3,622
1,004	106,053,429	53,027	48,105
1,092	-8,738,163	-4,369	-3,964
1,092	-27,646,485	-13,823	-12,540
1,004	212,965,468	106,483	96,599
1,004	20,656,411	10,328	9,370
1,004	477,687,136	238,844	216,675
1,004	1,729,972	865	785
1,004	60,240	30	27
1,092	-323,312	-162	-147
1,092	-69,590,727	-34,795	-31,566
1,004	150,549,800	75,275	68,288
1,004	70,501,481	35,251	31,979
1,004	215,285	108	98
1,004	8,243,891	4,122	3,739
1,004	6,840,365	3,420	3,103
0	0	0	0
1,092	-4,369	-2	-2
1,092	-220,639	-110	-100
1,004	734,496,280	367,248	333,162
1,092	-44,561,353	-22,281	-20,213
1,004	30,120,000	15,060	13,662
1,004	2,636,475	1,318	1,196

1,004	110,972,685	55,486	50,336
0	0	0	0
1,004	515,656,408	257,828	233,898
1,092	-230,469	-115	-105
1,092	-17,476	-9	-8
1,004	4,016,000	2,008	1,822
1,092	-17,265,517	-8,633	-7,832
1,004	26,130,104	13,065	11,852
1,092	0	0	0
1,092	-259,686,178	-129,843	-117,792
1,092	-145,326,567	-72,663	-65,919
1,092	-1,498,088,075	-749,044	-679,521
1,004	131,035,052	65,518	59,436
1,092	-2,881,409	-1,441	-1,307
1,004	139,556	70	63
1,004	132,724,784	66,362	60,203
1,092	-79,945,450	-39,973	-36,263
1,004	12,390,364	6,195	5,620
1,004	1,795,244	898	814
1,004	24,626,775	12,313	11,171
1,004	30,434,252	15,217	13,805
1,004	222,652,060	111,326	100,993
1,092	-3,276,811	-1,638	-1,486
1,004	791,644,964	395,822	359,084
1,092	-296,799,339	-148,400	-134,626
1,092	-50,353,662	-25,177	-22,840
1,004	8,358,300	4,179	3,791
1,004	69,073,334	34,537	31,331
1,004	227,243,352	113,622	103,076
1,004	13,770,120	6,885	6,246
0	0	0	0
1,092	-4,290,438	-2,145	-1,946
	<hr/>	<hr/>	<hr/>
	2,377,337,561	1,188,669	1,078,342

excess generation. The emission rate when sum is negative is zero because emissions are accounted for in the :
: schedule determines whether or not it's a purchase or a sale. Generation in excess of base schedule is a sale, w

actual generation segment of the Power Cost Summary Report.

While base schedule in excess of actual generation is a purchase.

Sort Order	Year	Facility / Firm	Fuel (Primary)	Facility / Firm	MWh
3298	2016	Purchases - Secondary	System	Avista Corp. WWP Divisio	72,218
3299	2016	Purchases - Secondary	System	Black Hills Power	201
3300	2016	Purchases - Secondary	System	Book Outs - EITF 03-11	-6,081,614
3301	2016	Purchases - Secondary	System	BP Energy Co.	688,626
3302	2016	Purchases - Secondary	System	BPA	374,896
3303	2016	Purchases - Secondary	System	BPA - NWPP Reserve Sha	233
3304	2016	Purchases - Secondary	System	British Columbia Transmi	16
3305	2016	Purchases - Secondary	System	California ISO	33,095
3306	2016	Purchases - Secondary	System	Calpine Energy Services	169,176
3307	2016	Purchases - Secondary	System	Cargill Power Markets	812,939
3308	2016	Purchases - Secondary	System	Chelan County PUD #1	62,409
3309	2016	Purchases - Secondary	System	Citigroup Energy Inc	1,224,171
3310	2016	Purchases - Secondary	System	Clark Public Utilities	8,332
3311	2016	Purchases - Secondary	System	Clatskanie PUD	4,432
3312	2016	Purchases - Secondary	System	Conoco, Inc.	6,600
3313	2016	Purchases - Secondary	System	CP Energy Marketing (Epr	500
3314	2016	Purchases - Secondary	System	Douglas County PUD #1	281,095
3315	2016	Purchases - Secondary	System	EDF Trading NA LLC	483,150
3316	2016	Purchases - Secondary	System	Eugene Water & Electric	15,232
3317	2016	Purchases - Secondary	System	Exelon Generation Co LLC	160,970
3318	2016	Purchases - Secondary	System	Grant County PUD #2	20
3319	2016	Purchases - Secondary	System	GRIDFORCE ENERGY MAN	5
3320	2016	Purchases - Secondary	System	Iberdrola Renewables (PF	724,215
3321	2016	Purchases - Secondary	System	Idaho Power Company	14,367
3322	2016	Purchases - Secondary	System	Morgan Stanley CG	1,046,909
3323	2016	Purchases - Secondary	System	NextEra Energy Power M	41,481
3324	2016	Purchases - Secondary	System	Noble Americas Gas & Po	1,600
3325	2016	Purchases - Secondary	System	NorthPoint Energy Soluti	336
3326	2016	Purchases - Secondary	System	Northwestern Energy	12,081
3327	2016	Purchases - Secondary	System	Okanogan PUD	14,335
3328	2016	Purchases - Secondary	System	Pacificorp	73,911
3329	2016	Purchases - Secondary	System	Portland General Electric	308,093
3330	2016	Purchases - Secondary	System	Powerex Corp.	118,836
3331	2016	Purchases - Secondary	System	Public Service of Colorad	158,000
3332	2016	Purchases - Secondary	System	Rainbow Energy Marketir	956
3333	2016	Purchases - Secondary	System	Sacramento Municipal	153
3334	2016	Purchases - Secondary	System	Seattle City Light Marketi	92,909
3335	2016	Purchases - Secondary	System	Shell Energy (Coral Pwr)	450,861
3336	2016	Purchases - Secondary	System	Snohomish County PUD #	27,590
3337	2016	Purchases - Secondary	System	Southern Cal - Edison	100
3338	2016	Purchases - Secondary	System	Tacoma Power	78,082
3339	2016	Purchases - Secondary	System	Talen Energy (PPL Energy	232,943
3340	2016	Purchases - Secondary	System	Tenaska Power Services (975
3341	2016	Purchases - Secondary	System	The Energy Authority	979,776

3342	2016 Purchases - Secondary	System	TransAlta Energy Marketi	757,605
3343	2016 Purchases - Secondary	System	TransCanada Energy Sale	2,609
3344	2016 Purchases - Secondary	System	Turlock Irrigation District	18,671
3345	2016 Purchases - Secondary	System	Vitol Inc.	2,531,701
3346	2016 EIM Purchases	System	CAISO EESC Load Undistri	-39,391
3347	2016 EIM Purchases	System	CAISO PRSC Undistribute	26,884
3348	2016 EIM Purchases	System	Colstrip - Energy Imbalan	-22,441
3349	2016 EIM Purchases	System	Encogen	2,522
3350	2016 EIM Purchases	System	Ferndale Co-Generation	17,368
3351	2016 EIM Purchases	System	Freddie #1	-2,196
3352	2016 EIM Purchases	System	Fredonia - Energy Imbala	5,396
3353	2016 EIM Purchases	System	Fredrickson 1 & 2	1,505
3354	2016 EIM Purchases	System	Goldendale	37,286
3355	2016 EIM Purchases	System	Lower Baker	753
3356	2016 EIM Purchases	System	MID-C for Energy Imbalar	59,160
3357	2016 EIM Purchases	System	Mint Farm	5,699
3358	2016 EIM Purchases	System	Snoqualmie-Energy Imba	3,163
3359	2016 EIM Purchases	System	Sumas	8,890
3360	2016 EIM Purchases	System	Upper Baker	18,963
3361	2016 EIM Purchases	System	Whitehorn 2&3	1,384
3362	2016 EIM Purchases	System	Wild Horse (W183)	-15,815
3363	2016 Interchange - In	System	Avista Nichols Pump	21,796
3364	2016 Interchange - In	System	Cargill Power Markets	200
3365	2016 Interchange - In	System	Pacific Gas & Elec - Excha	413,000
3366	2016 Interchange - Out	System	Deviation	18,142
3367	2016 Interchange - Out	System	Pacific Gas & Elec - Excha	-413,000
3368	2016 Interchange - Out	System	Portland General Electric	-100
3369	2016 Interchange - Out	System	TransAlta Energy Marketi	-200
3370	2016 Transmission by Others	System	Avista Corp. WWP Divisio	46,050
3371	2016 Transmission by Others	System	BPA - CA Wind Integratio	1,953
3372	2016 Transmission by Others	System	BPA - PTP Transactions	39,252
3373	2016 Transmission by Others	System	BPA - Spin Reserv Require	5,037,220
3374	2016 Transmission by Others	System	BPA IS - Hourly Non-Firm	194
3375	2016 Transmission by Others	System	EDF Trading NA LLC	-191,676
3376	2016 Transmission by Others	System	Iberdrola Renewables (PF	-76,984
3377	2016 Transmission by Others	System	Idaho Power Company	-302,793
3378	2016 Transmission by Others	System	Morgan Stanley CG	-1,697,398
3379	2016 Transmission by Others	System	NextEra Energy Power M	-205
3380	2016 Transmission by Others	System	Northwestern Energy	89,897
3381	2016 Transmission by Others	System	Pacificorp	-254,478
3382	2016 Transmission by Others	System	Portland General Electric	290,000
3383	2016 Transmission by Others	System	Powerex Corp.	-1,701,985
3384	2016 Transmission by Others	System	Rainbow Energy Marketir	-1,200
3385	2016 Transmission by Others	System	Seattle City Light Marketi	-1,900
3386	2016 Transmission by Others	System	Shell Energy (Coral Pwr)	-10,890
3387	2016 Transmission by Others	System	Tacoma Power	-26,625
3388	2016 Transmission by Others	System	The Energy Authority	-257,647

3389	2016 Transmission by Others	System	TransAlta Energy Marketi	-365,094
3390	2016 Sales for Resale	System	Avista Corp. WWP Divisio	-84,678
3391	2016 Sales for Resale	System	Book Outs - EITF 03-11	6,084,194
3392	2016 Sales for Resale	System	BP Energy Co.	-472,884
3393	2016 Sales for Resale	System	BPA	-116,473
3394	2016 Sales for Resale	System	BPA - NWPP Reserve Sha	-392
3395	2016 Sales for Resale	System	British Columbia Transmi	-1
3396	2016 Sales for Resale	System	Calpine Energy Services	-198,956
3397	2016 Sales for Resale	System	Cargill Power Markets	-342,611
3398	2016 Sales for Resale	System	Chelan County PUD #1	-4
3399	2016 Sales for Resale	System	Citigroup Energy Inc	-1,101,646
3400	2016 Sales for Resale	System	Clark Public Utilities	-8,175
3401	2016 Sales for Resale	System	Clatskanie PUD	-3,423
3402	2016 Sales for Resale	System	Conoco, Inc.	-10,425
3403	2016 Sales for Resale	System	Constellation Power Sour	-7
3404	2016 Sales for Resale	System	CP Energy Marketing (Epc	-2,142
3405	2016 Sales for Resale	System	Douglas County PUD #1	-1,946
3406	2016 Sales for Resale	System	EDF Trading NA LLC	-579,047
3407	2016 Sales for Resale	System	Eugene Water & Electric	-57,965
3408	2016 Sales for Resale	System	Exelon Generation Co LLC	-80,680
3409	2016 Sales for Resale	System	GRIDFORCE ENERGY MAI	-73
3410	2016 Sales for Resale	System	Iberdrola Renewables (PF	-540,807
3411	2016 Sales for Resale	System	Idaho Power Company	-50,200
3412	2016 Sales for Resale	System	Morgan Stanley CG	-419,966
3413	2016 Sales for Resale	System	Natur Ener USA	-22
3414	2016 Sales for Resale	System	Nevada Power Company	-116
3415	2016 Sales for Resale	System	NextEra Energy Power M	-2,575
3416	2016 Sales for Resale	System	Noble Americas Gas & Po	-400
3417	2016 Sales for Resale	System	Northwestern Energy	-47,355
3418	2016 Sales for Resale	System	Okanogan PUD	-8,030
3419	2016 Sales for Resale	System	Pacificorp	-213,391
3420	2016 Sales for Resale	System	Portland General Electric	-302,064
3421	2016 Sales for Resale	System	Powerex Corp.	-395,006
3422	2016 Sales for Resale	System	Public Service of Colorad	-186,595
3423	2016 Sales for Resale	System	Rainbow Energy Marketir	-21,444
3424	2016 Sales for Resale	System	Sacramento Municipal	-10
3425	2016 Sales for Resale	System	Seattle City Light Marketi	-30,489
3426	2016 Sales for Resale	System	Shell Energy (Coral Pwr)	-356,872
3427	2016 Sales for Resale	System	Snohomish County PUD #	-8,210
3428	2016 Sales for Resale	System	Tacoma Power	-25,904
3429	2016 Sales for Resale	System	Talen Energy (PPL Energy	-67,154
3430	2016 Sales for Resale	System	Tenaska Power Services (-17
3431	2016 Sales for Resale	System	The Energy Authority	-45,801
3432	2016 Sales for Resale	System	Transalta Centralia Gener	-2,206
3433	2016 Sales for Resale	System	TransAlta Energy Marketi	-431,647
3434	2016 Sales for Resale	System	TransCanada Energy Sale	-9,917
3435	2016 Sales for Resale	System	Turlock Irrigation District	-155

3436	2016 Sales for Resale	System	Vitol Inc.	-2,338,954
3437	2016 EIM Sales	System	CAISO PRSC Undistributed	-9,323
3438	2016 EIM Sales	System	Encogen	-2,844
3439	2016 EIM Sales	System	Ferndale Co-Generation	-16,343
3440	2016 EIM Sales	System	Fredonia - Energy Imbalance	-4,186
3441	2016 EIM Sales	System	Fredrickson 1 & 2	-814
3442	2016 EIM Sales	System	Goldendale	-12,077
3443	2016 EIM Sales	System	MID-C for Energy Imbalance	-53,228
3444	2016 EIM Sales	System	Mint Farm	-4,348
3445	2016 EIM Sales	System	Sumas	-4,271
3446	2016 EIM Sales	System	Upper Baker	-13,213
3447	2016 EIM Sales	System	Whitehorn 2&3	-1,042
				<hr/>
				4,166,129

lbs CO2/MWh	Short Tons CO2	Metric Tons (CO2, not CO2e)	WA Department of Commerce Fuel Mix Repor
895	32,318	29,318	Secondary purchases to serve PSE load, unspecified
895	90	82	Secondary purchases to serve PSE load, unspecified
895	-2,721,522	-2,468,923	Secondary purchases to serve PSE load, unspecified
895	308,160	279,558	Secondary purchases to serve PSE load, unspecified
895	167,766	152,195	Secondary purchases to serve PSE load, unspecified
895	104	95	Secondary purchases to serve PSE load, unspecified
895	7	6	Secondary purchases to serve PSE load, unspecified
895	14,810	13,435	Secondary purchases to serve PSE load, unspecified
895	75,706	68,680	Secondary purchases to serve PSE load, unspecified
895	363,790	330,025	Secondary purchases to serve PSE load, unspecified
895	27,928	25,336	Secondary purchases to serve PSE load, unspecified
895	547,817	496,971	Secondary purchases to serve PSE load, unspecified
895	3,729	3,383	Secondary purchases to serve PSE load, unspecified
895	1,983	1,799	Secondary purchases to serve PSE load, unspecified
895	2,954	2,679	Secondary purchases to serve PSE load, unspecified
895	224	203	Secondary purchases to serve PSE load, unspecified
895	125,790	114,115	Secondary purchases to serve PSE load, unspecified
895	216,210	196,142	Secondary purchases to serve PSE load, unspecified
895	6,816	6,184	Secondary purchases to serve PSE load, unspecified
895	72,034	65,348	Secondary purchases to serve PSE load, unspecified
895	9	8	Secondary purchases to serve PSE load, unspecified
895	2	2	Secondary purchases to serve PSE load, unspecified
895	324,086	294,006	Secondary purchases to serve PSE load, unspecified
895	6,429	5,833	Secondary purchases to serve PSE load, unspecified
895	468,492	425,009	Secondary purchases to serve PSE load, unspecified
895	18,563	16,840	Secondary purchases to serve PSE load, unspecified
895	716	650	Secondary purchases to serve PSE load, unspecified
895	150	136	Secondary purchases to serve PSE load, unspecified
895	5,406	4,904	Secondary purchases to serve PSE load, unspecified
895	6,415	5,820	Secondary purchases to serve PSE load, unspecified
895	33,075	30,005	Secondary purchases to serve PSE load, unspecified
895	137,872	125,075	Secondary purchases to serve PSE load, unspecified
895	53,179	48,243	Secondary purchases to serve PSE load, unspecified
895	70,705	64,142	Secondary purchases to serve PSE load, unspecified
895	428	388	Secondary purchases to serve PSE load, unspecified
895	68	62	Secondary purchases to serve PSE load, unspecified
895	41,577	37,718	Secondary purchases to serve PSE load, unspecified
895	201,760	183,034	Secondary purchases to serve PSE load, unspecified
895	12,347	11,201	Secondary purchases to serve PSE load, unspecified
895	45	41	Secondary purchases to serve PSE load, unspecified
895	34,942	31,699	Secondary purchases to serve PSE load, unspecified
895	104,242	94,567	Secondary purchases to serve PSE load, unspecified
895	436	396	Secondary purchases to serve PSE load, unspecified
895	438,450	397,755	Secondary purchases to serve PSE load, unspecified

895	339,028	307,561	Secondary purchases to serve PSE load, unspecified
895	1,168	1,059	Secondary purchases to serve PSE load, unspecified
895	8,355	7,580	Secondary purchases to serve PSE load, unspecified
895	1,132,936	1,027,782	Secondary purchases to serve PSE load, unspecified
895	-17,627	-15,991	Treat these as secondary purchases even if it's a PSE resou
895	12,031	10,914	Treat these as secondary purchases even if it's a PSE resou
895	-10,042	-9,110	Treat these as secondary purchases even if it's a PSE resou
895	1,129	1,024	Treat these as secondary purchases even if it's a PSE resou
895	7,772	7,051	Treat these as secondary purchases even if it's a PSE resou
895	-983	-892	Treat these as secondary purchases even if it's a PSE resou
895	2,415	2,191	Treat these as secondary purchases even if it's a PSE resou
895	673	611	Treat these as secondary purchases even if it's a PSE resou
895	16,686	15,137	Treat these as secondary purchases even if it's a PSE resou
895	337	306	Treat these as secondary purchases even if it's a PSE resou
895	26,474	24,017	Treat these as secondary purchases even if it's a PSE resou
895	2,550	2,314	Treat these as secondary purchases even if it's a PSE resou
895	1,416	1,284	Treat these as secondary purchases even if it's a PSE resou
895	3,978	3,609	Treat these as secondary purchases even if it's a PSE resou
895	8,486	7,698	Treat these as secondary purchases even if it's a PSE resou
895	619	562	Treat these as secondary purchases even if it's a PSE resou
895	-7,077	-6,420	Treat these as secondary purchases even if it's a PSE resou
895	9,754	8,849	Interchange-in, secondardy purchases to service PSE load,
895	90	81	Interchange-in, secondardy purchases to service PSE load,
895	184,818	167,664	Interchange-in, secondardy purchases to service PSE load,
895	8,118	7,365	Interchange-out, secondardy purchases to service PSE loa
895	-184,818	-167,664	Interchange-out, secondardy purchases to service PSE loa
895	-45	-41	Interchange-out, secondardy purchases to service PSE loa
895	-90	-81	Interchange-out, secondardy purchases to service PSE loa
895	20,607	18,695	Our power over other lines, 3rd party sales (wholesale)
895	874	793	Our power over other lines, 3rd party sales (wholesale)
895	17,565	15,935	Our power over other lines, 3rd party sales (wholesale)
895	2,254,156	2,044,936	Our power over other lines, 3rd party sales (wholesale)
895	87	79	Our power over other lines, 3rd party sales (wholesale)
895	-85,775	-77,814	Our power over other lines, 3rd party sales (wholesale)
895	-34,450	-31,253	Our power over other lines, 3rd party sales (wholesale)
895	-135,500	-122,923	Our power over other lines, 3rd party sales (wholesale)
895	-759,586	-689,084	Our power over other lines, 3rd party sales (wholesale)
895	-92	-83	Our power over other lines, 3rd party sales (wholesale)
895	40,229	36,495	Our power over other lines, 3rd party sales (wholesale)
895	-113,879	-103,309	Our power over other lines, 3rd party sales (wholesale)
895	129,775	117,730	Our power over other lines, 3rd party sales (wholesale)
895	-761,638	-690,947	Our power over other lines, 3rd party sales (wholesale)
895	-537	-487	Our power over other lines, 3rd party sales (wholesale)
895	-850	-771	Our power over other lines, 3rd party sales (wholesale)
895	-4,873	-4,421	Our power over other lines, 3rd party sales (wholesale)
895	-11,915	-10,809	Our power over other lines, 3rd party sales (wholesale)
895	-115,297	-104,596	Our power over other lines, 3rd party sales (wholesale)

895	-163,380	-148,215	Our power over other lines, 3rd party sales (wholesale)
895	-37,893	-34,376	This is wholesale power sales. Sales to other entities (Sale
895	2,722,677	2,469,970	This is wholesale power sales. Sales to other entities (Sale
895	-211,616	-191,974	This is wholesale power sales. Sales to other entities (Sale
895	-52,122	-47,284	This is wholesale power sales. Sales to other entities (Sale
895	-175	-159	This is wholesale power sales. Sales to other entities (Sale
895	0	0	This is wholesale power sales. Sales to other entities (Sale
895	-89,033	-80,769	This is wholesale power sales. Sales to other entities (Sale
895	-153,318	-139,088	This is wholesale power sales. Sales to other entities (Sale
895	-2	-2	This is wholesale power sales. Sales to other entities (Sale
895	-492,987	-447,230	This is wholesale power sales. Sales to other entities (Sale
895	-3,658	-3,319	This is wholesale power sales. Sales to other entities (Sale
895	-1,532	-1,390	This is wholesale power sales. Sales to other entities (Sale
895	-4,665	-4,232	This is wholesale power sales. Sales to other entities (Sale
895	-3	-3	This is wholesale power sales. Sales to other entities (Sale
895	-959	-870	This is wholesale power sales. Sales to other entities (Sale
895	-871	-790	This is wholesale power sales. Sales to other entities (Sale
895	-259,124	-235,073	This is wholesale power sales. Sales to other entities (Sale
895	-25,939	-23,532	This is wholesale power sales. Sales to other entities (Sale
895	-36,104	-32,753	This is wholesale power sales. Sales to other entities (Sale
895	-33	-30	This is wholesale power sales. Sales to other entities (Sale
895	-242,011	-219,549	This is wholesale power sales. Sales to other entities (Sale
895	-22,465	-20,379	This is wholesale power sales. Sales to other entities (Sale
895	-187,935	-170,492	This is wholesale power sales. Sales to other entities (Sale
895	-10	-9	This is wholesale power sales. Sales to other entities (Sale
895	-52	-47	This is wholesale power sales. Sales to other entities (Sale
895	-1,152	-1,045	This is wholesale power sales. Sales to other entities (Sale
895	-179	-162	This is wholesale power sales. Sales to other entities (Sale
895	-21,191	-19,224	This is wholesale power sales. Sales to other entities (Sale
895	-3,593	-3,260	This is wholesale power sales. Sales to other entities (Sale
895	-95,492	-86,629	This is wholesale power sales. Sales to other entities (Sale
895	-135,174	-122,627	This is wholesale power sales. Sales to other entities (Sale
895	-176,765	-160,359	This is wholesale power sales. Sales to other entities (Sale
895	-83,501	-75,751	This is wholesale power sales. Sales to other entities (Sale
895	-9,596	-8,706	This is wholesale power sales. Sales to other entities (Sale
895	-4	-4	This is wholesale power sales. Sales to other entities (Sale
895	-13,644	-12,377	This is wholesale power sales. Sales to other entities (Sale
895	-159,700	-144,878	This is wholesale power sales. Sales to other entities (Sale
895	-3,674	-3,333	This is wholesale power sales. Sales to other entities (Sale
895	-11,592	-10,516	This is wholesale power sales. Sales to other entities (Sale
895	-30,051	-27,262	This is wholesale power sales. Sales to other entities (Sale
895	-8	-7	This is wholesale power sales. Sales to other entities (Sale
895	-20,496	-18,594	This is wholesale power sales. Sales to other entities (Sale
895	-987	-896	This is wholesale power sales. Sales to other entities (Sale
895	-193,162	-175,234	This is wholesale power sales. Sales to other entities (Sale
895	-4,438	-4,026	This is wholesale power sales. Sales to other entities (Sale
895	-69	-63	This is wholesale power sales. Sales to other entities (Sale

895	-1,046,682	-949,534	This is wholesale power sales. Sales to other entities (Sale
895	-4,172	-3,785	Treat these as secondary purchases even if it's a PSE resou
895	-1,273	-1,154	Treat these as secondary purchases even if it's a PSE resou
895	-7,313	-6,635	Treat these as secondary purchases even if it's a PSE resou
895	-1,873	-1,700	Treat these as secondary purchases even if it's a PSE resou
895	-364	-330	Treat these as secondary purchases even if it's a PSE resou
895	-5,404	-4,903	Treat these as secondary purchases even if it's a PSE resou
895	-23,819	-21,609	Treat these as secondary purchases even if it's a PSE resou
895	-1,946	-1,765	Treat these as secondary purchases even if it's a PSE resou
895	-1,911	-1,734	Treat these as secondary purchases even if it's a PSE resou
895	-5,913	-5,364	Treat these as secondary purchases even if it's a PSE resou
895	-466	-423	Treat these as secondary purchases even if it's a PSE resou
134,250	1,864,343	1,691,303	

t (per WUTC April 2018):

895 lbs CO2 per MWh

meter > than base schedule, sale occurred.
meter > than base schedule, sale occurred.
meter > than base schedule, sale occurred.
meter > than base schedule, sale occurred.
meter > than base schedule, sale occurred.
meter > than base schedule, sale occurred.
meter > than base schedule, sale occurred.
meter > than base schedule, sale occurred.
meter > than base schedule, sale occurred.
meter > than base schedule, sale occurred.
meter > than base schedule, sale occurred.

WA Department of Commerce Fuel Mix Report (per WUTC April 2018): 895.0
PSE Own + Firm PPA (5.4.18): 1046.04

Row Labels	Sum of MWh	Sum of MWh
Avista Corp. WWP Division	33,590	33,590
Avista Nichols Pump	21,796	21,796
Black Hills Power	201	201
Book Outs - EITF 03-11	2,580	2,580
BP Energy Co.	215,742	215,742
BPA	258,423	258,423
BPA - CA Wind Integration	1,953	1,953
BPA - NWPP Reserve Sharing Energy	-159	-159
BPA - PTP Transactions	39,252	39,252
BPA - Spin Reserv Requirement	5,037,220	5,037,220
BPA IS - Hourly Non-Firm	194	194
British Columbia Transmission Corp	15	15
CAISO EESC Load Undistributed Costs	-39,391	-39,391
CAISO PRSC Undistributed Costs	17,561	17,561
California ISO	33,095	33,095
Calpine Energy Services	-29,780	-29,780
Cargill Power Markets	470,528	470,528
Chelan County PUD #1	62,405	62,405
Citigroup Energy Inc	122,525	122,525
Clark Public Utilities	157	157
Clatskanie PUD	1,009	1,009
Colstrip - Energy Imbalance Market	-22,441	-22,441
Conoco, Inc.	-3,825	-3,825
Constellation Power Source, Inc.	-7	-7
CP Energy Marketing (Epcor)	-1,642	-1,642
Deviation	18,142	18,142
Douglas County PUD #1	279,149	279,149
EDF Trading NA LLC	-287,573	-287,573
Encogen	-322	-322
Eugene Water & Electric	-42,733	-42,733
Exelon Generation Co LLC	80,290	80,290
Ferndale Co-Generation	1,025	1,025
Freddie #1	-2,196	-2,196
Fredonia - Energy Imbalance Market	1,210	1,210
Fredrickson 1 & 2	691	691
Goldendale	25,209	25,209
Grant County PUD #2	20	20
GRIDFORCE ENERGY MANAGEMENT, LLC.	-68	-68
Iberdrola Renewables (PPM Energy)	106,424	106,424
Idaho Power Company	-338,626	-338,626
Lower Baker	753	753
MID-C for Energy Imbalance Market	5,933	5,933
Mint Farm	1,351	1,351

Morgan Stanley CG	-1,070,455	-1,070,455
Natur Ener USA	-22	-22
Nevada Power Company	-116	-116
NextEra Energy Power Marketing	38,701	38,701
Noble Americas Gas & Power	1,200	1,200
NorthPoint Energy Solutions, Inc.	336	336
Northwestern Energy	54,623	54,623
Okanogan PUD	6,305	6,305
Pacific Gas & Elec - Exchange	0	0
Pacificorp	-393,958	-393,958
Portland General Electric	295,929	295,929
Powerex Corp.	-1,978,155	-1,978,155
Public Service of Colorado	-28,595	-28,595
Rainbow Energy Marketing	-21,688	-21,688
Sacramento Municipal	143	143
Seattle City Light Marketing	60,520	60,520
Shell Energy (Coral Pwr)	83,099	83,099
Snohomish County PUD #1	19,380	19,380
Snoqualmie-Energy Imbalance Market	3,163	3,163
Southern Cal - Edison	100	100
Sumas	4,619	4,619
Tacoma Power	25,553	25,553
Talen Energy (PPL Energy Plus)	165,789	165,789
Tenaska Power Services Co.	958	958
The Energy Authority	676,328	676,328
Transalta Centralia Generation LLC	-2,206	-2,206
TransAlta Energy Marketing	-39,336	-39,336
TransCanada Energy Sales Ltd	-7,308	-7,308
Turlock Irrigation District	18,516	18,516
Upper Baker	5,749	5,749
Vitol Inc.	192,747	192,747
Whitehorn 2&3	342	342
Wild Horse (W183)	-15,815	-15,815
Grand Total	4,166,129	4,166,129

0.924299065

lbs CO2 per MWh
lbs CO2 per MWh

Pounds of CO2	Short Tons (CO2 only)	Metric Tons (CO2 only)
30,063,050	15,032	13,636
19,507,850	9,754	8,849
179,895	90	82
2,309,100	1,155	1,047
193,089,090	96,545	87,584
231,288,585	115,644	104,911
1,747,701	874	793
-166,321	-83	-75
35,130,540	17,565	15,935
4,508,312,061	2,254,156	2,044,936
173,630	87	79
13,425	7	6
-41,204,626	-20,602	-18,690
15,716,979	7,858	7,129
29,620,025	14,810	13,435
-31,151,204	-15,576	-14,130
421,122,560	210,561	191,018
55,852,475	27,926	25,334
109,659,875	54,830	49,741
140,515	70	64
903,055	452	410
-23,473,866	-11,737	-10,648
-4,001,120	-2,001	-1,815
-7,322	-4	-3
-1,717,605	-859	-779
16,236,885	8,118	7,365
249,838,355	124,919	113,325
-300,814,143	-150,407	-136,447
-336,461	-168	-153
-44,700,618	-22,350	-20,276
71,859,550	35,930	32,595
917,718	459	416
-2,297,138	-1,149	-1,042
1,082,762	541	491
618,353	309	280
22,562,409	11,281	10,234
17,900	9	8
-71,131	-36	-32
95,249,480	47,625	43,204
-354,217,851	-177,109	-160,670
673,927	337	306
5,309,639	2,655	2,408
1,209,170	605	548

-1,119,743,522	-559,872	-507,907
-23,013	-12	-10
-121,341	-61	-55
34,637,395	17,319	15,711
1,074,000	537	487
300,720	150	136
48,887,585	24,444	22,175
5,642,975	2,821	2,560
0	0	0
-412,097,583	-206,049	-186,924
264,856,455	132,428	120,137
-2,069,238,077	-1,034,619	-938,590
-29,911,641	-14,956	-13,568
-22,686,612	-11,343	-10,290
127,985	64	58
54,165,400	27,083	24,569
74,373,605	37,187	33,735
17,345,100	8,673	7,868
2,831,243	1,416	1,284
89,500	45	41
4,134,135	2,067	1,875
22,869,935	11,435	10,374
148,381,155	74,191	67,305
857,410	429	389
605,313,560	302,657	274,566
-2,307,574	-1,154	-1,047
-41,147,205	-20,574	-18,664
-7,644,493	-3,822	-3,467
16,571,820	8,286	7,517
5,145,737	2,573	2,334
172,508,565	86,254	78,249
306,512	153	139
-16,542,778	-8,271	-7,504
<hr/> 3,075,204,103	<hr/> 1,537,602	<hr/> 1,394,889

8% 79.12
 1068.12