Sort Order Year Facility /		Type Primary / Secondary Generation - Hudro PSS Generation	According to	toes Generation Facility / Firm	MWh.	Bis CO2/MFWh St		ric Tons Notes	Emissions Factor (Tons CO2/mm8tu)	MMStu (from To EW-923)	otal Short Tons G CO2	Total Net ien. (M'Wh) Calc from EA- 603	ulated Emission Sistem Sezer Serv Money
2 2005 Slectron 2 2005 Lewer 82 5 2005 Snoqual 6 2005 Snoqual 8 2005 Upper 82 11 2005 Collatro 12 2005 Collatro 12 2005 Encogen 15 2005 Control 16 2005 Control 17 2005 Control 18 2005 Snoqual	aker mie Falls #1 mie Falls #2 aker	Generation - Hydro PSE Generation Generation - Hydro PSE Generation	Renewable Renewable Renewable Renewable Renewable Coal Coal Gas	es Sietzron fes Lower Bater fes Snoqualmie Falls #1 fes Snoqualmie Falls #1 fes Upper Bater fes Upper Bater fes Collatrio 1 & 2 fes Collatrio 2 & 4 fes Encogen	96,719,50 296,318,98 51,530,60 139,699,00 296,224,47	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	Hudno Hydno Hydno Hydno Hydno					
17 2005 Erwidies	1 & 2 2 & 4 Wountain	Generation - Hydro PSE Generation Generation - Hydro PSE Generation Generation - Steam PSE Generation Generation - Steam PSE Generation Generation - Steam PSE Generation Generation - ON/Sac/W PSE Generation Generation - ON/Sac/W PSE Generation	Coal 1 Coal 1 Gas 1 Diesel 1	see Snoqualmin Falls #1 see Snoqualmin Falls #2 see Upper Baler see Carrier 1 #2 #2 see Carrier 1 #2 #2 see Carrier 1 *2 see Carrier	2241.215.00 2,924,484.00 459,081.82 59.29 338,805.00	2,524,34 2,5 2,310,66 2,3 1,031,63 2 2,020,79 654,28 1:	129.920.30 190,300.38 36,802.25 59.91 10,836.59						COOK insected what from GRE investors report, Table 3-2 COOK inspected large flow GRE investors report, Table 3-2 GRE investors (Table 3-2 GRE investors) Table 3-2 GRE investors (Table 3-2 GRE investors) Table 3-2 GRE investors (Table 3-2 GRE investors) Table 3-2
18 2005 Fredoria 20 2005 Fredricks 21 2005 Hopkins	son 1 & 2 son 1 & 2 Ridge (W184) orn 2&2 o (Point Roberts)	Generation - Ol/Gax/WI PSE Generation Generation - Ol/Gax/WI PSE Generation Generation - Ol/Gax/WI PSE Generation	Gas 1 Gas 1 Renewable 1 Gas 1	les Fredania les Fredrickson 1 & 2 les Hopkins Ridge (W184) les Whitehorn 2 & 3	12,655.00 1,421.50 23,670.17 1,064.70 21,622.68	1,064.30 1,692.13 0.00 1,564.08	6,724.38 1,202.68 0.00 824.82	Wind					Geof Interesting Value 3-5 Geoff Interesting Value 3-5 Geo
28 2005 BC Hydro 29 2005 BPA 30 2005 BPA Fire 32 2005 Chalan P	In a 184 point february point february	Perchases - Form From Primary Purchases - Form From Primary	System 1 Renewable 1 System 1 Renewable 1	tes BC Hydro (Point Roberts) les BPA. les BPA Firm - WWPR3 Exchange les Chalan PUD - Rock Inland Svet #2 les Chalan PUD - Rock Inland Svet #2	21,622.68 7,000.00 407,654.00 1,274.698.00 2,144,283.00 1,057,504.00	1,064.20 1 0,001.13 1,004.20 1 0,000 1,000 1 0,000 0,0	6,724.38 1,202.68 0.00 524.52 9,754.43 0.00 625.092 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Per Ken Finnicle - " Per Brennan Muelle Hudna	The SPA contract is a h or: "The SPA WNP3 ag	ydroelectric contro reement works the	sct. BPA provides t same way [as Bass	to PSE the Army Cr slays] but the price	size of Engineers energy losses for ficod storage space in sipper labels." Jean maybe quantify as test to the performance of "proy" suches plants. This agreement originated as compensation to PSE from SPA for a potential nuclear plant that we invested in but never get built.
29 2005 89A	PUD - Wells Project UD - Priest Rapids UD - Wanapum on EnergyiMFPCI Firm Contract	Purchases - Firm Firm Primary Purchases - Firm Firm Primary	Renewable 1 Renewable 1 Renewable 1 Coal 1	tes Douglas PUD - Malby Malor tes Douglas PUD - Malor Project tes Grant PUD - Managoin tes Grant PUD - Wanagoin tes MWestern Searouth PCI Sirm Contr	1007,504.00 186,705.00 434,635.00 43 801,041.00 89,728.00 1,790.16	0.00 0.00 0.00 0.00 2.20	0.00 0.00 0.00 883.02	Hindra Hindra Hindra Hindra Hindra Colestio 100 MfW co	ontract				Calculated emission rate from PEE GWG Inventor report. Table 3-2
38 2005 Snohomi 39 2005 Vanderki 60 2005 WASCO i 42 2005 Mutchins	ish PUD Conservation lask Colry Digester Hydro son Cneek	Purchases - Firm Firm Primary Purchases - Firm Firm Primary Purchases - Firm Firm Primary Purchases - PUBPA Firm Primary Purchases - PUBPA Firm Primary Purchases - PUBPA Firm Primary Purchases - PUBPA Firm Primary	System () Renewable () Renewable ()	les Snohomish PUD Conservation les Vanderkiak Dairy Digester les WKSCO Hydro les Hutchinson Creek	89,728.00 1,790.16 41,804.00 2,364.00 21,826.00 1,016,806.38 18,809.37	902.24 4 0.00 0.00 0.00	0,678.11 0.00 0.00 0.00	Digestor Hydro Liquar Landfil Gas Extremeable CCCT Hydro CCCT Hydro					
43 2005 Koma Ka 45 2005 March P 46 2005 Nooksad 47 2005 Poor Tow 49 2005 Receive	ulithan Associates oint Cogen 1 & 2 X wasend Paper Co.	Purchase - PURPA Firm Primary Purchase - PURPA Firm Primary	Renewable 1 Gas 1 Renewable 1 Stack Liquor 1 Renewable 1	tes Koma Bulikan Ausociates tes March Point Cogen 1 & 2 tes Nooksack tes Port Townsend Paper Co. tes Port Townsend Paper Co.	21.936.00 1,016.906.38 18,909.27 2,498.48 6,493.00	0.00 726.80 3 0.00 985.79 :	69.507.82	Hudro CCCT Hydro Black Liquor I world Gor	0.10448	13,595	1,420	2,882	727 Factor from GPA CPP TXD, pp. 41-50; Fuel use MMBBs (for Sixc) and Net Gen (MVA) from Six-222 in the reporting year 966 Factor from GPA CPP TXD, pp. 41-50; Fuel use MMBBs (for Sixc) and Net Gen (MVA) from Six-222 in the reporting year
47 2005 Port Too 88 2005 Port Too 90 2005 Scookme 50 2005 Scookme 51 2005 Signovi 52 2005 Texaska 53 2005 Texaska 54 2005 Weeks FI 56 2005 Arlsona 57 2005 Arlsona 57 2005 Arlsona	MESW Cogeneration ica Creek	Purchases - PUBPA Firm Primary Purchases - PUBPA Firm Primary	MSW Y Gas Y Renewable Y Gas Y	les Sookane MSW les Sumas Cogneration les Syglowicz Creek les Tenanka	15,005.47 2,488.48 6,683.59 147.314.00 1,032,316.53 4.64 523,308.64	985.79 : 0.00 4.414.95 2: 927.49 6: 0.00 885.50 2:	1.221.48 0.00 10.401.47 78.724.11 0.00 21.698.15	Not renewable CCCT Hydro CCCT	0.11289 0.05844 0.05844	2,880,790 7,944,383 3,887,785	325-212 464,270 227,202		4.465 Factor from GPA CRP TOD, as 41-50 Evoluse MMABIN for fact: Lord Net Gan Middle from GRA-033 in the reportion ever 927 Factor from GPA CRP TOD, pp. 41-50; Evoluse MMABIN for GRA-03 (and Net Gan Middle) from GRA-03 in the reporting year 955 Factor from GPA CRP TOD, pp. 41-50; Evoluse MMABIN for GRA-04 (and Net Gan Middle) from GRA-03 in the reporting year
\$3 2005 Twin Fall \$4 2005 Weeks Fi \$6 2005 Artoonal \$7 2005 ARTOO Po	Is Hydro alls Fublic Service ower Canada	Perthales - PuBPA - Emit Prinsary Purchases - Excondary Secondary Purchases - Excondary Purchases - Excondary Purchases - Excondary Purchases - Excondary Secondary	Renewable 1 Renewable 1 System 1 System 1	tes Twin Falls Hydro tes Weeks Talls tes Arizona Public Service tes Arizo Power Canada tes Arizo Power Canada	\$23,209.64 68,662.00 8.206.80 208,755.00 1,589.00	885 50 2: 0.00 0.00 902.24 1: 902.24	0.00 0.00 39,285.60 716.83	Hydra Hwdra					
58 2005 Aultas Gr 59 2005 Aultas Gr 60 2005 Beretan G 61 2005 Book out 62 2005 Book out 63 2005 Book out 64 2005 BP Famp 64 2005 BP Au 65 2005 Caligna G 67 2005 Caligna G	County PUD Ils Power Its - EITF 03-11	Partitions - Geodesia	System 1 System 1 System 1 System 1	tes Audita Energy tes Berton County PUD tes Block Wills Power tes Book Outs - EITS G3-11	61,219.42 764,907.00 15.599.00 19,925.00 -1,261,279.00	902.24 2 902.24 3 902.24 9 902.24 6 902.24 6	0.00 21 604 15 0.00 0.00 0.00 0.00 0.00 0.02 0.02 0.0						
63 2005 BP Energ 64 2005 BP A 65 2005 Burbank 66 2005 Calpine E	gy Co. . City of Energy Management	Purchases - Secondary Purchases - Secondary Purchases - Secondary Purchases - Secondary Secondary	System (System (System (System (les 8P Energy Co. les 8P-K les 8P-K les 8u-bank City of les Calpine Energy Management	121,092.00 617,085.00 6.019.00 116,791.00 111,066.00	902.24 S 902.24 2 902.24 S 902.24 S 902.24 S	4,599.97 78,379.48 2,715.29 12,686.77						
68 2005 Caspill Pc 69 2005 Chilan C 70 2005 Chilan C 71 2005 Chirosa 71 2005 Concon 72 2005 Concon	ower Markets County PUD #1 to Sneaw Inc ile PUD	Purchase - Secondary Secondary Purchase - Secondary Secondary Purchase - Secondary Secondary Purchase - Secondary Secondary Purchase - Secondary Secondary	System y System y System y System y	tes Carpill Fower Markets les Chelan County PUD #1 les Chianasa Senera inc les Clatinasa Senera inc	62,417.00 86,002.00 5,000.00 11,269.00 21,703.00	902.24 2 902.24 3 902.24 902.24 902.24	18,157.57 18,797.24 2,255.60 5,083.67 9,790.66						
72 2005 Conoco, 73 2005 Constells 74 2005 Douglas 75 2005 ENMAXI	Inc. ation Power Source, Inc. County PUD #1 Energy Marketing, Inc.	Purthasis - Secondary Secondary Purthasis - Secondary Purthasis - Secondary Secondary Purthasis - Secondary Secondary Secondary Purthasis - Secondary Se	System (System (System (System (les Conoco, inc. les Constellation Power Source, inc. les Douglas County PLID #1 les DNMAX Enersy Marketina. Inc.	21,703.00 505,863.00 283,186.00 4.290.00	902.24 1 902.24 2 902.24 1 902.24 1 902.24 6 902.24 1	9,790.66 28,204.99 27,750.91 1,925.21						
72 2005 Convenience 74 2005 Douglas 75 2005 Elyakov 76 2005 Elyakov 77 2005 Eugene 78 2005 Franklin 79 2005 Grant 60 2005 Grant 81 2005 Bedrond 82 2005 Elyakov 83 2005 Elyakov 84 2005 Elyakov 85 2005 Elyakov 86 2005 Elyakov 87 2005 Elyakov 88 2005	Water & Capital Water & Rectric County PUD #1 sunty PUD #2 sunty PUD #2	Purchase - Secondary Secondary Purchase - Secondary Secondary Purchase - Secondary Secondary Purchase - Secondary Secondary	System 1 System 1 System 1 System 1	tes Spoor Marchant & Capital fes Sugmen Witter & Selectric fes Franklin County PUD #1 fes Grant County PUD #2 fes Grant Guild PUD #1	21,702.00 505,861.00 282,186.00 4.200.00 155,130.00 41,201.00 7,145.00 60,685.00 12,882.00 466,866.00 21,760.00	902.24 1 902.24 1 902.24 1 902.24 1 902.24 2 902.24 2	8,631.71 3,223.25 18,308.71 6,309.01						
81 2005 libertrols 82 2005 litatho Fal 83 2005 litatho Po 84 2005 J. Aron B	a Renewate ills Power ower Company & Company	Purchases - Secondary Secondary Purchases - Secondary Secondary Purchases - Secondary Secondary Purchases - Secondary Secondary Purchases - Secondary Secondary	System) System) System)	tes ibendrola Renewables (PPM Energy tes idaho Falls Power tes idaho Power Company tes J. Aron & Company	456,966.00 21,760.00 25,218.00 12,800.00	902.24 21 902.24 1 902.24 1 902.24 1	19,204.99 27,750.91 1395.21 20,955.25 26,201.71 2,222.25 2,202.71 2,202.71 2,202.71 2,202.71 2,742.26 2,650.22 2,742.26 2,650.22 2,742.26						
85 2005 Klamath 86 2005 Los Ange 87 2005 Macquai 88 2005 Merchant 99 2005 Montant	Falls. City of elec Dagst. Witter & Power rie Energy LLC yech Commodities n triumtion Dinnir	Purchases - Secondary	System () System () System () System ()	les Klamarth Falls, Citry of les Los Angelies Dept. Water & Power les Macquarie Energy LLC les Mertill Lyoch Commodities les Montants informits (Marrier les Montants informits (Marrier	25,318.00 12,800.00 19.175.00 6,008.00 243,625.00 22,000.00 731.00	902.24 1 902.24 1 902.24 1 902.24 1 902.24 1	8.650.22 2,710.32 09,904.15 9,924.64						
90 2005 Mossett 90 2005 Morrani 92 2005 N. Califor 93 2005 NorthFo	o Irrigation Electrica Staniar CG mila Power Agency mericas Energy Solutions ilet Energy Solutions, Inc.	Purthases -Secondary Secondary Purthases -Secondary Purthases -Secondary Secondary Purthases -Secondary Secondary Secondary Secondary Secondary Secondary Secondary Secondary Purthases -Secondary Secondary Secondary Purthases -Secondary Secondary	System 1 System 1 System 1 System 1	tes Modeleto Irrigation District fes Moraran Stanline V. G fes N. California Power Agency fes Nobile Americas Energy Solutions fes Notification Energy Solutions, Inc.	22,000.00 731.00 78182.00 9,2000 9,400.00 1.009.00	902.24 902.24 902.24 902.24 902.24 902.24	09,004.15 9,924.64 329.77 15.269.92 4,159.32 4,920.52 6,92.15 6,154.62 867.05 12,952.93 11,257.24						
95 2005 Northwe 96 2005 Okanoga 97 2005 Pacific N 98 2005 Pacific N	estern Energy on PUD onthwest Generatin Coop. 19	Purchases - Secondary Purchases - Secondary Purchases - Secondary Purchases - Secondary Secondary	System (System (System (System (les Northwestern Energy les Chanogan PUD les Padific Northwest Generatin Coop. les Padificorp	1,069.00 12,643.00 1,022.00 117,381.00 202,512.00	902.24 902.24 902.24 902.24 902.24 902.24	6,154.63 867.05 12,952.93 11,357.24						
99 2005 Pontace 100 2005 Portland 101 2005 Powers 102 2005 PP&LM:	r West Capital Colp I General Bectric « Corp. ontains, LLC. moles of Colorado	Purchase - Secondary Secondary Purchase - Secondary Secondary Purchase - Secondary Secondary Purchase - Secondary Secondary	System 1 System 1 System 1 System 1	les Pontace west captarcop les Pontand General Decric les Powerex Corp. les PP& Montana, LLC. les Bublir Sentina d'Cnlorado	156,352.00 636,352.00 636,760.00 47,005.00	902.24 7 902.24 2 902.24 2 902.24 2	05,740.12 0,532.54 87,255.27 11,204.90						
1	see Seed Seed Seed Seed Seed Seed Seed S	Automotive	Amount	Control and Contro	200,512.00 652,825.00 156,352.00 67,005.00 82,800.00 84,102.00 2,052.00 1,255.00 1,255.00 2,270.00	902.24 21 902.24 7 902.24 21 902.24 2 902.24 3 902.24 3 902.24 3 902.24 902.24	60 SOLIDA (1985) 20 SOLIDA (1						
108 2005 Seattle C 109 2005 Sempral 110 2005 Shell En 111 2005 Sierra Pa 112 NNK CII;	ory cashe Marketina Energy Trading engy (Coral Paur) solfic Power talley Parr - Santa Clar*	Purchases - Secondary Secondary Purchases - Secondary Secondary Purchases - Secondary Secondary Purchases - Secondary Purchases - Secondary	System () System () System () System ()	res Seattle City Light Marketing fes Sempra Energy Trading fes Shell Energy (Coral Pur) fes Sierra Pacific Power fes Silicon Valley Par - Contra Cit fes Silicon Valley Par - Contra Cit	BATTON BA	90214 3 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	7.464.93 34,527.44 49,391.40 1,018.18 1,080.88						
113 2005 Snohomi 114 2005 Southern 115 2005 SUEZ Ene 116 2005 Tacomai	ich County PUD #5 n Cal - Edison ergy Marketing (Tractebel) Power	Purchases - Secondary Purchases - Secondary Purchases - Secondary Purchases - Secondary Purchases - Secondary Secondary	System Y System Y System Y System Y	les Snohomish County PUD #5 les Southern Call - Edison les SUSE Energy Marketing (Tractebel) les Tacoma Power	21.194.00 69,229.00 155,175.00 73,221.00	902.24 1 902.24 2 902.24 7 902.24 3	4.072.24 11,230.60 10,002.57 13,081.09						
117 2005 Fertanka 119 2005 Transka 120 2005 Transka 121 2005 Turlock I 122 2005 USS AG	ta Energy Marketing nada Power Corp. Irrigation District	Purchase - Secondary Secondary Purchase - Secondary Secondary Purchase - Secondary Secondary Purchase - Secondary Secondary Purchase - Secondary Secondary	System 1 System 1 System 1 System 1	es renacca fes Transchata Sneesy Marketina fes Transchanada Power Corp. fes Turfock Intigation District fes USS AG	952.384.00 2,211.00 54,814.00 9,670.00	902.24 6 902.24 6 902.24 2 902.24 2	29.639.61 997.43 14,727.70 4.362.33						
123 2005 Western 125 2005 Black Cri 126 2005 BPA 127 2005 Franklin	i Area Power Association eek Hudro County PUD#1	Purchases - Secondary Secondary interchange - In Secondary interchange - In Secondary interchange - In Secondary	System (System (System (les Western Area Power Association les Black Creek Historo les BPA les Franklin County PUD HS	60.00 3.735.00 59,275.00 2,530.00	902.24 902.24 902.24 2 902.24	27.07 1.684.92 16.740.15 1,136.82						
128 2005 Pacific G 129 2005 Powers 130 2005 Powers 131 2005 Seattle C 132 2005 TransAlt	iss & Siec - Exchange - Exchange - Cora. Dity Light Marketing to Energy Marketing	interchange - in Secondary interchange - in Secondary interchange - in Secondary interchange - in Secondary interchange - in Secondary	System () System () System () System ()	les Pacific Gas & Siec - Sachange les Powerex - Sachange les Powerex Cora les Seattle City Light Marketing les TransAta Seeny Marketing	413,000.00 745,956.00 76,956.00 659,600.00 1,709,150.00	902.24 10 902.24 30 902.24 3 902.24 2 902.24 7	86,312.62 36,515.78 94,696.03 97,558.85 70,580.88						
134 2005 Black Cre 125 2005 BPA 136 2005 Deviation 137 2005 Franklin	eek Hydro e County PUD#1	Interchange - Out Secondary Interchange - Out Secondary Interchange - Out Secondary Interchange - Out Secondary	System (System (System (System (fes Black Creek Hydro fes BPA fes Deviation fes Franklin County PUD #5	-3,839.00 -59,925.00 -25,112.42 -3,530.00	902.24 -0 902.24 -0 902.24 -1 902.24 -1	1,791.85 27,033.37 11.328.72 1,136.82						
128 2005 Pacific G. 129 2005 Poweres 140 2005 Poweres 141 2005 Sentilo C. 142 2005 Transillo	ias & Elec - Exchange - Exchange c Corp. Circ Light Marketine to Course Marketine	Interchange - Out Secondary	System () System () System () System ()	les Pacific Gas & Siec - Sachange les Powerex - Sachange les Powerex Corp. les Seattle City Light Marketine les Trans Alts Gouwy Marketine	413,000.00 -745,956.00 -76,900.00 -659,600.00 -1799.150.00	902.24 -2 902.24 -3 902.24 -3 902.24 -2 902.24 -2	86,312.62 36,515.78 34,646.03 97.558.85 30.580.99						
199 2005 Arizona i 200 2005 Avista Co 201 2005 Avista So 202 2005 Benton C	Public Service arp. WWP Division netgy County PUD	Sales for Resale Secondary	System 1 System 1 System 1 System 1	tes Aribona Public Service tes Aultza Corp, WWP Division tes Aultza Energy tes Bereton County Publi	-1,600.00 -52,058.00 -279,013.00 -5,815.00	902.24 902.24 -2 902.24 -1 902.24 -1	-721.79 22,684.41 25,868.39 2,623.26						
203 2005 Block Hill 204 2005 Block Our 205 2005 BP Energ 206 2005 BP A	Ils Power es - EITF 03-11 gy Co.	Sales for Resale Secondary	System) System) System)	tes Black Hills Power tes Book Outs - EITF 02-11 tes BP Energy Co. tes BPA	-1,362.00 1,263,279.00 -53,482.00 -62,440.00	902.24 Sp 902.24 Sp 902.24 -2 902.24 -2	-614.43 69,890.61 24,126.81 28,167.94						
207 2005 Barbans 208 2005 Calgine 6 209 2005 Calgine 6 210 2005 Cargill Pc 211 2005 Chelan C	Lots of Energy Management Energy Services Ower Markets County PUD #1	Sales for Resale Secondary	System 1 System 1 System 1 System 1	tes Guidans. City of Colpine Energy Management tes Calpine Energy Services Cargill Fower Markets tes Cargill Fower Markets	-53,667.00 -69.00 -75,665.00 -3,000.00	902.24 -3 902.24 902.24 -3 902.24 -3	0.127,80 04,120.04 -211.58 04,042.78 1,353.36						
212 2005 Citienous 213 2005 Citroken 214 2005 Concoo, 215 2005 Concool	o Sherary Inc rise PUID Inc. attion Power Source, Inc.	Sales for Resale Secondary	System y System y System y	les Citieroux Eneron inc les Classicanie PUD les Conco, inc. les Constellation Power Source, inc.	-14.400.00 -3,681.00 -18,450.00 -72,419.00	902.24 902.24 902.24	6.896.13 1,660.57 8,323.17 32,678.69						
215 2005 EMMAX1 217 2005 Eppor M 218 2005 Eugene'i 219 2005 Franklin 220 2005 Grant Co	Linergy Marketing, Inc. Incrhant & Capital Water & Dicctric County PUD #1 Sunty PUD #2	Sales for Resale Secondary	System 1 System 1 System 1 System 1	les Spoon Merchant & Capital les Spoon Merchant & Capital les Sugene Water & Sectric les Franklin County PUD III les Grant County PUD III	-12,76200 -47,00000 -13,400.00 -2,600.00 -5,000.00	902.24 902.24 902.24 902.24 902.24 902.24 902.24 902.24 902.24 902.24 902.24 902.24 902.24 902.24 902.24 902.24 902.24	6,08.74 6,085.01 1,177.42 2,278.16						
221 2005 Grays Hz 222 2005 Hinson P 223 2005 Iberdrola 224 2005 Idaho Po	arbor PUD #1 Power Company a Renewables (PPM Energy) ower Company	Sales for Resale Secondary Sales for Resale Secondary Sales for Resale Secondary Sales for Resale Secondary	System (System (System (System (les Grays Harbor PUD#1 les Hisson Power Company les Ibenfrola Renewables (PPM Energy les Idaho Power Company	-0,395.00 -000.00 -001,369.00 -13,645.00	902.24 902.24 902.24 902.24	1,531.55 -180.45 90,796.50 6.155.53						
224 2005 infano Po 225 2005 L Areas I 226 2005 L Areas I 227 2005 L Areas I 228 2005 Each Age 229 2005 Marcquir 229 2005 Marcquir 220 2005 Marcquir 221 2005 Marcquir 222 2005 Marcquir 223 2005 Marcquir 224 2005 Marcquir 225 2005 Marcquir 226 2005 Marcquir 227 2005 Paulicquir 227 2005 Paulicquir 228 2005 Paulicquir	a Company i Falls, City of elec Dept. Water & Power rise Energy LLC vech Commodities	Sales for Paraula Sales for Pa	System V System V System V System V	te Louis & Company te Klamanh Falls, City of tes Los Angeles Dept. Water & Power tes Macquarie Energy LLC tes Mercill Lunch Commodities	-11,645.00 -17,844.00 -3,100.00 -9,336.00 -67,600.00 -12,210.00	902.24 902.24 902.24 902.24 902.24 902.24	80,785.50 7,504.23 1,388.47 4,201.66 80,895.72 5,968.30 3,003.27 5,2360.16 2,284.47 6,502.67						
230 2005 Modests 231 2005 Morgan: 232 2005 N. Califor 233 2005 Noble Ar	o irrigation District Stanley CG rnia Power Agency mericas Energy Solutions	Sales for Resalle Secondary Sales for Resalle Secondary Sales for Resalle Secondary Sales for Resalle Secondary Sales for Resalle Secondary	System () System () System ()	les Modesto Irrigation District les Morgas Stanley CG les N. California Power Agency les Nobile Americas Energy Solutions	-12210.00 -4,485.00 -116,067.00 -5,064.00 -12,200.00	902.24 902.24 902.24 902.24 902.24	2,023.27 52,360.16 2,284.47 5,503.67						
234 2005 NorthFol 235 2005 Northwe 236 2005 Okanogs 237 2005 Pacific N 238 2005 Pacific N	sint Energy Solutions, Inc. Indexn Energy on PUD Iorthwest Generatin Coop.	Sales for Resalle Secondary Sales for Resalle Secondary Sales for Resalle Secondary Sales for Resalle Secondary Sales for Resalle Secondary	System (System (System (System (System (tes NorthFaint Energy Solutions, Inc. tes Northwestern Energy tes Okanogan PUD tes Pacific Northwest Generatin Coop. tes Pacificana	-7.171.00 -12,875.00 -90.00 -13,771.00 -393,036.00	902.24 902.24 902.24 902.24 -4	6,808.17 -60.60 6,212.28						
239 2005 Planacie 240 2005 Postland 241 2005 Powerex 242 2005 PP&LMo	West Capital Corp I General Bectric Corp. ontana, LLC.	Sales for Resalle Secondary Sales for Resalle Secondary Sales for Resalle Secondary Sales for Resalle Secondary Sales for Resalle Secondary	System Y System Y System Y System Y	les Pinnacio West Capital Coro les Postland General Disciric les Powerex Corp. les PP&L Montana, LLC.	-11,600,00 -225,698,00 -364,088,00 -51,102,00 -50,870,00	902.24 -4 902.24 -4 902.24 -4 902.24 -2 902.24 -3	5.232.99 56,704.90 19,125.42 23,053.14 22,948.48						
239 2005 Pinnació 280 2005 Portand 241 2005 Pouters 242 2005 PML Mi 242 2005 PML Mi 243 2005 Redding, 245 2005 Redding, 246 2005 Sacrame 247 2005 Sacrame 248 2005 Sacrame	v Eneral Marketine , City of into Municipal to Gas & Sectric	Sales for Francis Sales for Francis Sales for Service Secondary Sales for Francis	System V System V System V System V	les Rainbow Eneror Marketine les Redding, City of les Sacramento Municipal les San Dieso Gas & Bischric	-77.986.00 -2,812.00 -13,526.00 -1,362.00 -26,006.00	902.24	25.181.06 1,268.55 6,101.85 -569.31 11,280.26						
248 2005 Seamle C 249 2005 Semona 250 2005 Shell Sie 251 2005 Silon V 252 2005 Silon V 253 2005 Silon V 253 2005 Snobeni	Dry Light Marketing Energy Tradine engy (Coral Pur) solfs Power talley Pur - Santa Clara ish County PUD 85	Sales for Besale Secondary Sales for Resale Secondary	System V System V System V System V	les Seutrie City Light Marketing es Semora Sonero Tradine fes Shell Energy (Coral Peur) fes Sierra Pacific Power fes Silicon Valley Peur - Santa Clara es Snobemish County PUD Et	-25,005.00 -99,153.00 -66,693.00 -1,858.00 -2,354.00 -23,113.00	902.24 902.24 902.24 902.24 902.24 902.24 902.24	11,280.26 64,729.92 80,086.56 -820.59 1,513.06 10,426.74						
254 2005 SUEZ En	n car - selson ergy Marketing (Tractebel)		System () System () System () System ()	vis SUEZ Energy Marketine (Tractebel)	-10.104.00 -242,108.00	902.24 -1 902.24 -1 902.24 - 902.24 -0 902.24 -1	1,512.06 10,826.74 4.558.12 09,219.80 1,717.41						
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295 2006 Electron 296 2006 Lower & 299 2006 Snoousle 300 2006 Snoousle	aker mie Falls #1 mie Falls #2	Generation - Hydro PSE Generation Generation - Hydro PSE Generation Generation - Hydro PSE Generation Generation - Hydro PSE Generation	Renewable 1 Renewable 1 Renewable 1 Renewable 1	les Electron les Lower Baker les Snooualmie Falls #1 les Snooualmie Falls #2	67,270.35 234,144.54 47,557.60 161,751.40 238,552.67	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	Hydro Hydro Hydro Hydro Hydro					
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299 2005 Snoqualit 200 2005 Snoqualit 201 2006 Snoqualit 202 2006 (upper la) 205 2006 Colority 207 2006 Colority 207 2006 Colority 207 2006 Encount 201 2006 Colority 201 2006 Encount 201 2006 Fredrick 201 2006 Fredrick 201 2006 Whitehe 202 2006 Whitehe 202 2006 Whitehe 203 2006	alker with Falls #1 min Falls #2 min Falls #3 min Falls #	Generation - Steam PSE Generation Generation - Oli/Gat/W PSE Generation	Gas 1 Gas 1 Gas 1 Renewable 1	to Lower Baker Consider of pile in Consider of pile in Cons	258.962.15 1,060.42 293,030.00 42,874.60 12,684.30 361.586.58	765.28 11 1,279.48 2 1,724.89 1 0.00	50,409.54 17,428.54 10,939.51 0.00	Wind					Coli constanti y dala 2 del Co
215 2006 Hookins 218 2006 Wilseho 219 2006 Will Hor 221 2006 BC Hydro 222 2006 BPA 223 2006 BPA	om 263 me (W183) o (Point Roberts) n - W88883 Curbanes	Generation - Oli/Gat/Wi PSE Generation Generation - Oli/Gat/Wi PSE Generation Generation - Oli/Gat/Wi PSE Generation Purchases - Firm Firm Primary Purchases - Firm Firm Primary Purchases - Firm Firm Primary Durchases - Firm Firm Primary	Renewable 1 System 1 Renewable 1	tes Whitehorn 282 fes Wild Horse (WER) fes BC Hydro (Yolint Roberts) fes BPA fes BPA	26158658 13,578.00 11,241.77 22,242.52 7,077.00 363.035.00	1,596.43 1 0.00 845.28 1 0.00	0.00 9,400.60 0.00 53,027.75	Wind Per Ken Finnicle - " Per Propose Muelle	The SPA contract is a h	ydroelectric contro	sct. BPA provides t	to PSE the Army Co	GHG inventory Table 3.2 urgs of Segioners mergy losses for Bood strange space in tigger laker.* The sequence envisionant or connectation in the Bild for notestick protect that was because of the sequence of the sequence of the sequence of the Bild for notestick protect short that was because of the sequence of the
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225 2006 Mutthins 226 2006 Koma Ku 228 2006 March P 229 2006 Nooksad 240 2006 Port Tow	son Creek ulshan Associates foint Coren 1 & 2 X	Purchase - PURPA Rinn Primary Purchase - PURPA Rinn Primary Purchase - PURPA Rinn Primary Purchase - PURPA Rinn Primary Purchase - PURPA Rinn Primary	Renewable 1 Renewable 1 Gas 1 Renewable 1	les Hutchinson Creek les Koma Kulshan Associates les March Point Cozen 1 & 2 les Nooksack	2,171.36 23,668.00 683.695.99 17,652.95 1,847.06	0.00 0.00 726.80 2 0.00	0.00 0.00 57.475.45 0.00	Digester Hydro Hydro Hydro Hydro CCCT Hydro Black Liquor Landfill Gas Not renewable CCCT Hydro CCCT Hydro CCCT Hydro CCCT Hydro CCCT Hydro	0.05844	5992212.74	250.185	963633.89	727 Easter from DR.COPTID. oz. 45 SD. Eusland MARBLI für Cinc.) and hand Gen ANNAN from Cin-922 in the resortina warr 1,006 Easter from DR.COPTID, pp. 45 50; Fast seed MARBLI für Cinc.) and hand cein (MARI) from Cin-922 in the responsing year
360 2006 Payallap 341 2006 Spokare 342 2006 Spokare 343 2006 Syglood 344 2006 Syglood 345 2006 Tenaska 346 2006 Tenaska 347 2006 Weeks F.	is finergy Recovery Company MSW Jameserstion	Purchase - PuBPA Firm Primary Purchase - PuBPA Firm Primary	Renewable 1 MSW 1 Gas 1 Renewable 1	No. Pool Toesmand Paper Campan Re Poyling Gerge Recovey Campan Re Poyling Gerge Recovey Campan Re Poyling Gerge Recovey Campan Re Special Control Re Aniza Georgy Re Bearten Cassey Públic Re Bearten Cassey Públic Re Bearten Cassey Públic Re Special Control	1,847.06 4,828.61 141,325.00 579.513.65 585.60 844,472.04	0.00 4.572.68 2 927.69 2 0.00	0.00 \$7.475.45 0.00 975.58 0.00 975.58 0.00 68.747.95 0.00	Landfill Gas Not renewable CCCT Hydro	0.11289 0.05844	2,862,957 4718933.65	323,199 275.769	141,330 594652.68	4,524 Factor from IPA CPP TSD, pp. 41-50; Suel use MMBlsu (for Disc.) and Net Gen (MMB) from IDA-922 in the reporting year 927 Factor from IPA CPP TSD, op. 41-50; Suel use MMBlsu (for Disc.) and Net Gen MMBN) from ISA-922 in the recontinue year
365 2006 Tennista 365 2006 Tennista 367 2006 Weeks 369 2006 Arizona 369 2006 Arizona 360 2006 Arizona	ls Hydra alls Public Service	Purchases - PubPA From Primary Purchases - PubPA From Primary Purchases - PubPA From Primary Purchases - Secondary Purchases - Secondary Purchases - Secondary Purchases - Secondary Purchases - Secondary Purchases - Secondary Purchases - Secondary Secondary	Gas Renewable Renewable System	les Tetaska les Tulin Falls Hydro les Weeks Falls les Artonna Public Service	844,472.04 67,232.00 12,691.00 2,000.00 820.00 102,666.80	86129 3 0.00 0.00 1.012.84 1 1,012.84 5	62.707.92 0.00 0.00 1.012.94	CCCT Hydro Hydro	0.05844	6042344.95	353,173	820011.81	861 Factor from IDA CPP 100, pp. 41-50; Seri use MMARbs (for Girc.) and Net Gen (MMAR) from Girk-903 (in the repenting year
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280 2006 Idaho Po	ower Company	Automotion	System Y System Y System Y System Y	Collection From Comment Country Rev. Comment Country Rev. Comment Country Rev. Coun	21,400.00 600,192.00 84,230.00 99,558.00 20,000.00	1,013.84 1 1,013.84 2 1,013.84 6 1,013.84 5	0,848.12 02,860.86 12,698.00 0,668.09 0,138.43						
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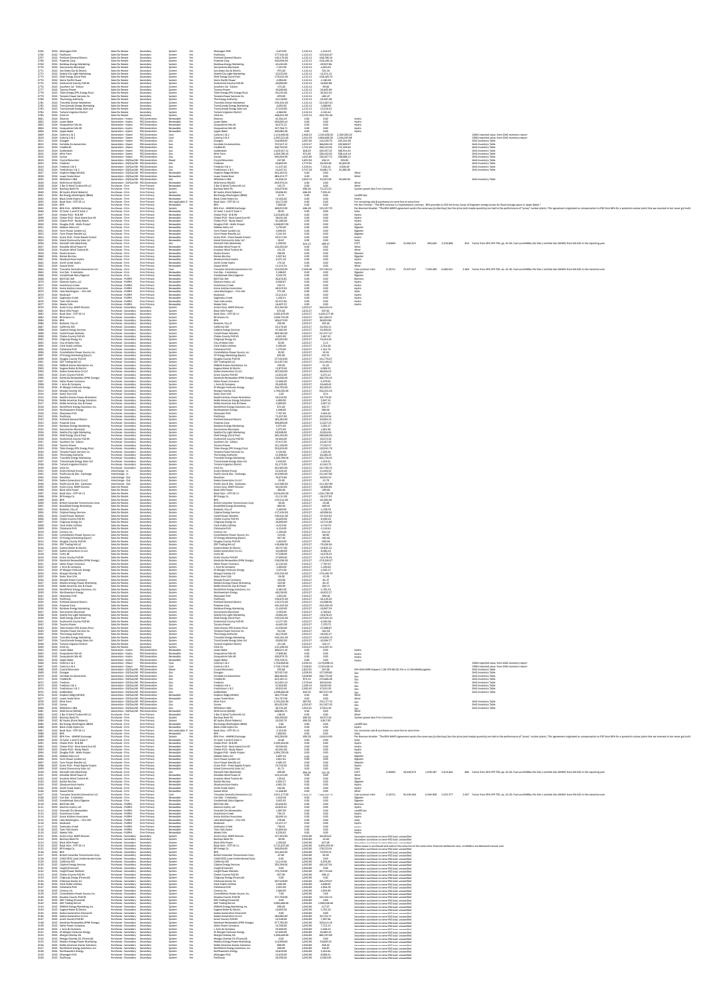
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Sact Order Year Facility/Ferm	Type Primary/Second	tary Class Puel (Primary)	Does Generation Far Serve FSE Load?		MM1		2008 Report Unspecified Delivered Commercia Rate	JUT Enrolling Rate Unspectified Sales Mill Own et sinstitute	Notes	Execution Facilist MAMES (Form Scientish (Tank EA-424) CO	ort Tonic Conc. (MANS) Execution Factor Conc. (MANS) Execution Factor Conc. (MANS) Execution Factor	
201	Generation - Holder PROGressions - Generation - Holder PROGressions - Holder PROGression	Renewalitie Renewalitie Renewalitie Renewalitie Renewalitie Renewalitie Cotal Gas	Yes	Incident Control of the Control of t	MILTAL TO STA, GOLT AS STA, GOLT AS STA, SELLAS STA, SELLAS ALTO, SELLAS ALTO, SELLAS ALTO, SELLAS S		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		Heydris Heydris Heydris Heydris Heydris Heydris		CBM, register visus, fundades have story of CBM projected visus, fundades have story of CBM projected visus, fundades have story of CBM several visus in CBM	nguat sidan 9 s anguat sidan 9 s
103 2008 Production IA 6 875 2008 Production IA 2 877 2008 Projects Rodge (RESE) 883 2008 Wild Resta (RESE) 882 2008 Wild Resta (RESE)	Generation - Distantivi Pist Generation Generation - Oligac/Wir Pist Generation Generation - Olifosi/Wir Pist Generation Generation - Olifosi/Wir Pist Generation Generation - Olifosi/Wir Pist Generation	Gai Gai Renewable Gai Renewable	704 Pr 704 Pr 704 W 704 W	edanius III. II epision Ridge (WIRI) francou III. francou III. francou III.	10,761.20 10,761.20 629,922.08 4.181.00 662.096.78 8,629,875.28		1.796.06 17.796.01 0.00 0.00 1.771.64 8.662.06 0.00 0.00 4.791.608.21	FHED LIBES	World World		GMS Invention Table 9-8 GMS Invention Table 9-8 GMS Invention Table 9-8	
The State of the S			Yes 80 Yes 80 Yes 80 Yes C	The PRINCE AND PRINCE	22.68% SR 22.660		Marie Mari		Per Enn Francise - "S Per Ennicke Martier Hydra	te SPA contact is ahedroelectric contract. SPA "The SPA WINTS agreement works the Game w.	vereider til 1981 tile denn Canas effektionen enemen kann för fluid danne nake i ny judia-schrijt for tile plete god noyke questig jan tilet til 18 epertemaken dr. 19 Calautand emission ride from 1985 treit	in Usione Balanc." prising" nuclear glands. This agreement originated as compensation to PSE
10	Auditosis - Free Programme - P	Suchen Reine mabble Spilden Reine mabble Rei	794 80 7954 88 7954 88 7954 95 7955 95	matic PUD - Weldt Potent Gelt PUD - Priest Rajelic Gelt PUD - Wanagum ond Bar Weld Power III	1.001.001.00 684,674.00 694,678.00 108.011.00		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00		Hedra Hydra Hydra Whid		Calculated emission rate from PSI GM3 Inves	
995 2008 Seubornick PLD Conservation 996 2008 Vanderboak Davy Digle Cer 997 2008 ValcOnlydd V 999 2008 Hubbhildin Criefs	Purchases - From From Primary Purchases - From From Primary Purchases - From From Primary Purchases - PURPS. From Primary	Sussen Renewable Renewable Renewable	Yes 16 Yes W Yes M	obuned FID Conservation anderskas Cavy Digester ISSCO Hydro distinces Creek	27,002,00 61,052,00 2,008,30		80.26 86.0031 0.00 0.00 0.00 0.00 0.00 0.00		Digester Hydra Hydra			
2002 2008 Konsa Kuntan Accordance 2002 2008 March Pool Capper - 1 & 2 2008 2008 Nucleica 2008 2008 For Twomard Fairer Co. 2008 Parallias Exercis Recovers Commons	Purchaser - PURPS. From Primary Purchaser - PURPS. From Primary Purchaser - PURPS. From Primary Purchaser - PURPS. From Primary Purchaser - PURPS. From Primary	Security Sec	THE SE THE ME THE PE THE PE	sera Kuddan Nooccutes Beck Point Cogen 1 & 2 Beck Roll St Townsend Paper Co. Wallus Stress Recovery Company	1,022,961.27 19,761.66 2.866.28 1.786.75		120 000 71219 8623816 0.00 0.00 11119 1882.56		CCCY Hydra Mack Lisuar Landfill Cas	0.3048 NOT 740	12.851 41.705 2.526 Fadorfron EPA CPF TID. ea. 43-50 Fuel use	• MMIEL (for Elec.) and fiel Gen (MMIQ from Ell-1924 in the reporting year • MMIEL (for Elec.) and fiel Gen (MMIA) from Ell-1924 in the reporting wa
2006 2006 Spotker MOV 2006 2006 Spyllowick Cherk 2009 2006 Technicka 2010 2006 Technicka 2011 2006 Week Falls Mullis 2011 2006 Week Falls	Publisher - PURE. From Primary Publisher - PURE. From Primary Publisher - PURE. From Primary Publisher - PURE. From Primary Publisher - PURE. From Primary	Mow Renewable Gal Renewable Renewable	Yes 3g Yes 3g Yes 7e Yes 7e Yes W	ockane MSW glowicz Creek war Kalic Hudio lerk (Falic	128,181.00 611.84 681.176.62 71.121.02 11,981.80		4 609 67 299 117 18 0.00 0.00 971 64 71 650 0.00 0.00 0.00 0.00		Opported Impairs Im			eMMITEL (for the c) and Net Gen (MMM) from IEM-1929 in the reporting year eMMITEL (for the c) and Net Gen (MMM) from IEM-1929 in the resorting we
1234 ZEEK ANDONAPARICSONAGE	Sales for Reside Secondary	Tystem		Kona Publictervice	-UN-00	-0.00	1,08,796.35 306.112.90 F16 833.89 0.00	At Form 2009 From Drose-offeed Den + From Rate 803.89 -6.30				
1275 200K AWELL-CORN WAY Christian 1278 200K AWELL-CORN WAY Christian 1276 200K Ravillys Ravil Pric 1274 200K Ravillys Ravil Pric	Sales for Recale Secondary Purchases - Secondary Secondary Sales for Recale Secondary Purchases - Secondary Secondary			enta-Core, WMY Division enta-Core, WMY Division entays Bank Mic entays Bank Mic	-01.915.00 229.995.00 -92,027.00 54,188.00	186,870.04	1,026.07 91,772.59	0.00				
2016 2008 Backley Back Mc 2017 2008 Bear Energy IP 2013 2008 Bear Energy IP	Sales for Recate Secondary Purchases - Secondary Secondary		Yes Be	nor Briengy LP nor Briengy LP	60,600.00 82,600.00	22.161.00 88.900.00	1884F 118144 1884F 18723F	0.00				
1018	Spice for Secule Secondary Purchases - Secondary Secondary Stendarge - Out Secondary Stendarge - In Secondary			HISSA COUNTY PED HISSA COUNTY PED BOX COUNTY PED BOX COUNTY PED	-1.185.00 5,075.00 -6.796.00 6.605.00	4,18600	1,036.07 2,139.63	0.00				
2206 Black Hill Flower 2217 2206 Black Hill Flower	Salector Recate Secondary Purchases Secondary Secondary	System System	Yes Bi	ack HELPower ack HELPower	-2,129.00 4.399.00	-9630	1.00 er 1.00 ss	-94.00				
323E 200E BOOK COMS-SUP-CO-11 1280 200E BOOK COMS-SUP-CO-11 1261 200E BP-Enemy CO. 3229 200E BP-Enemy CO.	Punchases - becambley Sizes for Recibe Secondary Sizes for Recibe Secondary Punchases - becambles Secondary	Suizen Suizen		NAN CHAY - EITH CO-11 NAN CHAY - EITH CO-11 PERMIN CO.	-1,698,318.00 1,698,318.00 -28.312.00 8.671.00	0.00	1,000.07 0.00	0.00				
1062 2006 BPA 2019 2006 BPA 2086 BPA 2030 2008 BPA	Salector Secule Secondary Streedware - Dut Secondary Streedware - Se Fundance - Secondary Secondary	System Sustem System System		70. 70. 70.	-188,629.00 -99.129.00 97.794.00 287,771.00	-20,001.00	NA.89 0.00	-0,200.00				
1088 200K British Culumbia Sansansasan Curu 1086 200K Burbank, Olyafi 1031 200K Burbank, Olyafi	Salector Recale Secondary	Sellen	Yes Br	IEICH-Columbia Transmisses Care urbank, City of urbank, City of	-28.00	147,835.00 -21.00	1,036.67 71,772.96 833.88 0.00	0.00 -9.36				
2006 Cagot Power Markets 2008 Cagot Power Markets	Sales for Recale Secondary Purchases - Secondary Sales for Recale Secondary Purchases - Secondary Secondary	SysSem SysSem	Yes Ca	ingil Power Markets ingil Power Markets	-1,085.00 1.205.00 -177,806.00 156,686.00	130.00 -21.8600	1.004.07 64.07 804.89 0.00	0.00 6.004.25				
1066 2006 Chelas County FUED 55 3325 2006 Chelas County FUED 55 1067 2006 Chelas County FUED 55 1067 2006 Chelas County FUED 56 3335 2006 Critishous Beergy No.	Sales for Recale Secondary Purchases - Secondary Secondary Sales for Recale Secondary Purchases - Secondary Secondary			Main County PUD ET Main County PUD ET Digroup Trengy Inc Distant Steeler Inc	-7.027.00 60.076.02 -253,727.00 176.081.00	52,769.00	1,004.07 27,039.08	6.00				
IDEE ZODE CLEDAMINI-PUD 2025 ZODE CLEDAMINI-PUD	Sates for Recate Secondary Purchases - Secondary Secondary	System System	Yes Ci	additions PUD additions PUD	-17,062.00 29,929.00	-15.796.00 12.797.00	MLM 000	-22.680.10 6.00				
1089	Sales Sar Recale Secondary Publisher - Secondary Secondary Sales Sar Recale Secondary Secondary - Child Secondary Secondary - Secondary Publisher - Secondary Secondary			anold, Sri. Brook, Sri. Brooklistick Power Source, Sri.	-8.342.00 280,286.00 -98.678.00 -76.000.00 70,000.00 667,128.00	292,562.00	1,01.0 19,151.55	0.00				
2070 2000 Constributions Flower Mouries, Inc. 2006 2000 Constributions Flower Mouries, Inc. 2007 2000 Constribution Flower Mouries, Inc. 2017 2000 Constribution Flower Mouries, Inc. 2017 2000 Constribution Flower Mouries, Inc. 2017 2000 CF Sensity Marketines (Econol) 2018 2000 CF Sensity Marketines (Epote)	State State Secondary Fundament Secondary Sales for Recibe Secondary Nucleons - Secondary Sales for Recibe Secondary Nucleons - Secondary Secondary			institution Power Source, Inc. institution Power Source, Inc. institution Power Source, Inc. P Energy Marketing (Spoin)	70,000.00 667,029.00 -7.690.00 80,990.00	360,000,00	1201.07 181.617.66	6.00				
22.72 2006 Credit Suisse Energy, LSC 32.79 2006 Credit Suisse Energy, LSC	Sales for Recale Secondary Purchases - Secondary Secondary	Suiden Suiden	Yes Co	editturar Snerav, LLC editturar Snerav, LLC	-1.400.00 28.450.00	22,839.00 26,890.00	1,004.07 11,798.09	0.00				
1375 2006 OB Energy Training LLC 1330 2006 OB Energy Training LLC 1388 2006 Obvision	Special Record Secondary Purchases Secondary Secondary Steedbases - Sn. Secondary	Suizen	YH D	Energy Trading LLC Energy Trading LLC eviation	-58,578.00 68,078.00 -28,008.00	-55,509,00 -26,008,00	X31.89 0.00 X31.89 0.00	-627696 -5189172				
1276 2006 Oouglis County PUDIS 2211 2006 Oouglis County PUDIS 2275 2006 EMBOLE Energy Marketing, No. 2212 2006 EMBOLE Energy Marketing, No.	Salector Recale Secondary Purchases - Secondary Salector Recale Secondary Purchases - Secondary Secondary			inglis County PLD E3 malis County PLD E3 WMME Energy Marketing, Inc. WMME Energy Marketing, Inc.	-960.00 209.272.00 -2,690.00 866.00	288.811.00	1496.0° 122.07.05	0.00				
2276 2006 Supero Willer & Section 2255 2006 Supero Willer & Section	Sales for Recale Secondary Purchases - Secondary Secondary Sales for Recale Secondary Purchases - Secondary Secondary	System System	Yes Ba	dene Wider & Hechtic gene Wider & Hechtic uttic Enemy Marketina & Tradina uttic Enemy Marketina & Tradina	-38.663.00 123,900.00	-1.823.00 80,837.00	TOTAL STREET	-761.65 6:00				
2017 2008 Parks Service Markstone & Youlean 2016 2008 Parks Service Markstone & Youlean 2018 2008 Provider County PUD 81 2018 2008 Provider County PUD 81	Specific Recate Secondary Purchases Secondary Secondary		Tes Po Tes Po	lankin County FIID ES lankin County FIID ES	-181.275.00 161.965.00 -690.00 4,960.00	14,490.00	1,004.07 7,002.78 1,004.07 2,007.24	0.00				
1179 2008 Grant County FLO 82 1256 2008 Grant County FLO 82 1260 2008 Grant County FLO 82 1260 2008 Grant Nandor FLO 81 1267 2008 Grant Nandor FLO 81	Salector Recale Secondary Purchaser Secondary Secondary Salector Recale Secondary Purchaser Secondary Secondary			GATE COUNTY PLED SEE GATE COUNTY PLED SEE GATE RANGES PLED SEE GATE RANGES PLED SE	-11.801.00 60;043.00 -967.00 10.885.00	34,362.00	1,004.07 11,002.01	000				
1281 2006 Highland Energy UC 2006 Highland Energy UC	Sales for Recale Secondary Purchases - Secondary Secondary	System System	THE RE	ghland theogy LLC shland theogy LLC	14,406.00 14,297.00	1,000,00	1,00.07 (ARM) KOLM 0.00	-0.0				
1282 2005 Histor Fewer Company 2009 2005 Histor Fewer Company 1281 2005 Histor Fewer Company 1281 2005 Hospital Renowables (FFMEnesys) 2000 2005 Hospital Renowables (FFMEnesys)	Special Record Purchases Secondary Special Secondary Special Secondary Special Secondary Purchases Secondary Secondary			mon-Power Company mon-Power Company ecdals Recewidies (PPSEsecus) ecdals Recewidies (PPSEsecus)	-10,818.00 2,000.00 -97,828.00 608,601.00	-6.108.00	X31.89 0.00	-1.001.07				
1285 2006 163ho Power Complete 1001 2006 163ho Power Complete 1285 2006 105ept/s Energy Senator, Inc.	Sales for Recale Secondary Purchases - Secondary Secondary	Suiden Suiden	Tes 16 Tes 16	Bho Power Company Sho Power Company Degree Streets Services, Inc.	-22.506.00 55.259.00	H131600	1,004.07 170,001.00 1,004.07 36.902.06	0.00				
1085 2006 Integry Energy Sensors, Inc. 2002 2008 Integry Energy Sensors, Inc. 1088 2008 J. Avan & Company 2008 2008 J. Avan & Company	Selector Recare Secondary Purchases Secondary Secondary Selector Recare Secondary Purchases Secondary Secondary			tegrys Energy Services, Inc tegrys Energy Services, Inc Arion & Company Arion & Company	-8,400.00 2,400.00 -20,700.00 84,400.00	-1.200.00 21,700.00	1,004.07 8,042.09	4831				
1287 2008 P-Montain Verdines Energy 2008 2008 P-Montain Verdines Energy 1288 2008 2008 2009	Salector Recale Secondary Purchases Secondary Salector Recale Secondary Purchases Secondary Secondary			Massan Westures Energy Massan Westures Energy eleman Blos Commadility Services eleman Blos Commadility Services	-16.300.00 96.379.00 -1,300.00 14.606.00	-1,809.00	ELM 000	796.38				
2008 2005 Link Register Dept. Water & Power 1089 2005 Link Street Street 1089 2005 Links Develop Streets 2007 2005 Links Develop Streets	Purchases Secondary Secondary Selector Recale Secondary Purchases Secondary Secondary	System	Yes sa	K Angeries Dept. Water & Pawer aus Chenfus Brestv aus Chenfus Brestv	000.00 -1.111.00 200.00	8104.00 80.00	1,004.07 4371.08 1,004.07 305.07	0.00				
2007 2008 Glass Develop Service 1250 2008 Marie 2014 Commission 1250 2008 Marie 2014 Commission Service 1250 2008 Marie 40a Hesiston Children 12608 2008 2	Section Reside Secondary Selector Reside Secondary Selector Reside Secondary Purchases Secondary Secondary	System	Yes M	ernt Lynch Commodities beleta senation district beleda senation district	-9,200.00 -980.00 680.00	-0,200.00 -1,200.00	KEERS 0.00	-03639 -03632				
1050 2006 Mingain Stanley CG 1059 2006 Mingain Stanley CG	Sales for Recale Secondary Purchases - Secondary Secondary	System System	Yes Mi	Began Mariley CG Bezan Mariles CG	-091,986.00 1.208.788.00	200.00 796.799.00	1,01.0° 100.00 1,01.0° 100.00	6.00				
1288 Z005 N. California Plaver Agency 3290 2008 N. California Plaver Agency 1266 2008 Number Control 1271 2008 Number Control 1271 2008 Number Control 1272 Number Control No.	Special Record Purchases Secondary Special Secondary Special Secondary Special Secondary Purchases Secondary Secondary			California Power Agency California Power Agency orth/Point Energy Solutions, Inc. orth/Point Energy Solutions, Inc.	-362.00 639.00 -5.792.00 8,675.00	179.00	1.024.07 95.69	0.00				
2011 2008 North-Accidency Solutions, Inc. 2008 2008 North-Accident Solicies 2012 2008 North-Accident Solicies 2018 2008 North-Accident Solicies	Nucleote Secondary Spinotor Secondary Purchases Secondary Purchases Secondary Purchases Secondary Secondary	Suiden Suiden	Yes No.	othwellen teels othwellen teels othwellen teels	1,05.00 -11,060.00 27,021.00 200.00	2,685.00 14,539.00 200.00	1,004.07 1,014.03 1,004.07 7,607.08 1,004.07 207.08	6.00 6.00 6.00				
1296 2008 Chanasan PUD 1254 2008 Chanagan PUD	Sales for Recale Secondary Punchases - Secondary Secondary	System System	Yes Of	lancean PUD lancean PUD	-015.00 8,660.00	300.00	1,004.07 1,012.71	6.00				
2007 ZODE FASTIC CASE & Elec - Exchange 2009 ZODE FASTIC CASE & Elec - Exchange 2007 ZODE FASTIC NOVEMBER CASE CASE 2005 ZODE FASTIC NOVEMBER CASE CASE	Intentiongs - Dut Secondary Intentionals - In Secondary Secondary Secondary Punctions - Secondary Secondary			oofic Gar & Elec - Exchange oofic Gar & Elec - Exchange oofic Nadhwest Generalis Coop. oofic Nadhwest Generalis Coop.	-018,006.00 -018,106.00 -11,897.00 156,908.00	200.00	1866 153	6.00				
1098 2008 Facilitarent Energy LC 2008 Facilitarent Energy LC	Sales for Recale Secondary Purchases - Secondary Secondary	Suident Syldent	Yes Fa	actic tament treeze LLC actic tament treeze LLC	90,307,00 83,891,00	1,184.00	1,004.07 1,118.72	6.00				
1099 2008 Pacificate 2017 2008 Pacificate 1000 2008 PGES Strengy Tailing 2018 2008 PGES Strengy Tailing	Sales for Recale Secondary Purchases - Secondary Sales for Recale Secondary Purchases - Secondary Secondary		Yes PO	actions actions Skt terryy Trading Skt terryy Trading	-123.20%.00 290.062.00 -800.00 506.00	284,717.00	1,000.07 M,440.24	0.00				
2006 2008 Portland General Electric 2019 2008 Portland General Electric 2018 2008 Foreness - Exchange 2010 2008 Foreness - Exchange	Specific Recase Secondary Purchaser - Secondary Secondary Interdiance - Out Secondary Interdiance - Six Secondary Interdiance - Six Secondary	SysSem SysSem		ortand decent tiector ortand decent tiector owers - Euclideau werts - Euclideau	-17,239.00 106,358.00 -25,607.00 25,607.00	69.087.00	1004.07 81.008.76	6.00				
1202 2008 Powers Carp. 1000 2008 Powers Carp.	Sales for Recale Secondary Purchases - Secondary Secondary	System System	THI PI	Deserte Carp. Deserte Carp.	107,623.00 852.007.00	0.00 M.NIGO	1,004.07 0.00 1,004.07 17.007.05	0.00				
2008 Public tende of Colorado 2011 2006 Public tende of Colorado 2004 2008 Kandow Energy Makerina 2012 2008 Kandow Energy Makering	Spector Recare Secondary Purchaser Secondary Secondary Spector Recare Secondary Purchaser Secondary Secondary	System System System System		discheres of Courads discheres of Colorads anbow Brente Marketing anbow Brente Marketing	-11,615.00 9,806.00 -76,396.00 82,652.00	-1.625.00	X3.89 0.00	-239039				
1205 2008 Redding City of 1068 2008 Redding City of	Sales for Recale Secondary Purchases - Secondary Secondary	Suiden Suiden	Yes No.	eddine. City of eddine. City of	-5.297.00 5.296.00	8,256.00 27.00	1,004.07 18.88	6.00				
2006 2007 Sacramento Municipal 2006 2009 Sacramento Municipal 2007 2009 Sacramento Municipal 2009 2009 Sacramento Sacramento 2008 2009 Sacramento Sacramento	Sales for Recale Secondary Purchases - Secondary Sales for Recale Secondary Purchases - Secondary Secondary	System System System	Yes Sa	scamento titunogali scamento titunogasi in Diega Gas & Electric in Diega Gas & Electric	-2,805.00 2.095.00 -30,998.00 1,092.00		X31.89 0.00	-0.00				
1208 2008 SAUTH CTO LIABS Marketina 2009 2008 SAUTH CTO LIABS Marketina 2011 2008 SAUTH CTO Light Marketing 2016 2008 SAUTH CTO Light Marketing	Salector Secule Secondary Interchange - Dut Secondary Interchange - Se Secondary Purchases - Secondary Secondary		Yes 34 Yes 34 Yes 36 Yes 36	nazio Cito Ualiti Marketina nazio Cito Ualiti Marketina nazio City Ugiti Marketing nazio City Ugiti Marketing	-11,996.00 -18,900.00 18,900.00 114,778.00							
2008 2008 Semicial servir Trading 2007 2008 Semicial servir Trading 2008 Semicial servir Trading 2008 Shell Servir County Feb 2008 Shell Servir County Feb 2008 2008 Shell Servir C	Salector Recale Secondary Purchases Secondary Secondary	SysSem SysSem	Yes Se	emon trevay Trading empin trevay Trading	-18.368.00 894,356.00		1,004.07 \$1,600.00 1,004.07 \$68,677.36					
1211 2008 Sieva Pacific Power 1009 2008 Sieva Pacific Power	Sales for Recale Secondary Punchases - Secondary Secondary Sales for Recale Secondary Punchases - Secondary Secondary	System System System System	Yes Si	nell Boersv (Coral Pwr) nell Boersv (Coral Pwr) eria Pacific Power eria Pacific Power	-158.671.00 900.286.00 -17,317.00 7.628.00		1,004.07 400,072.99 804.89 0.00	-1808				
1212 2008 Sincon Valley Per - Santa Clara 1210 2008 Sincon Valley Per - Santa Clara 1218 2008 Southermain Country PSD E2 1211 2008 Southermain Country PSD E2 1211 2008 Southermain Country PSD E3	Sizector Recize Secondary Purchases Secondary Secondary Sizector Recize Secondary Purchases Secondary Secondary		Yes Si	Noon Yalley Per - Santa Clara Soon Yalley Per - Santa Clara Nobel Soon for PICE 81 Nobel Noon for PICE 81	-386.00 1,800.00 -22,679.00 Ng/372.00	149600	1.001.07 807.30	0.00				
1216 2006 Southern Call Silvan 2012 2006 Southern Call Silvan	Sales for Recale Secondary Purchases - Secondary Secondary	System System	Yes So Yes So	authers Cal - Billison authers Cal - Billison	-6,290.00 6,300.00	18000	1,004.07 27,005.08 1,004.07 NOTAB	6.00				
123 200 SEZ Snegs Makeling (Trickleder) 1275 200 SEZ Snegs Makeling (Trickleder) 1236 200 Sneeds Fawer Makeling	Specifor Recipie Secondary Purchases - Secondary Secondary Specifor Recipie Secondary	System System Sustem	Yes So	EZ Sneigy Marketing (Tractebet) EZ Sneigy Marketing (Tractebet) elector Tower Marketina	-15,700.00 24,795.00 -2.576.00	E395.00 -2.376.00		630 -10911				
3217 2008 Takimin Power 3216 2008 Takimin Power 3218 3008 Takimin Power 3218 3008 Takes Bringly (PPL Bringly Pluc) 3218 2008 Takes Bringly (PPL Bringly Pluc)	Salector Recale Secondary Purchases - Secondary Secondary Salector Recale Secondary Purchases - Secondary Secondary	System System	Yes Ta	KOMB Power KOMB Power den Enegy (PFL Enegy Plut) den Enegy (PFL Enegy Plut)	-9,208.00 200.687.00 -22,992.00 203,779.00	97.000.00		6.00				
2075 2005 Takes Sneegy (FFS Sneegy Fluc) 2076 2005 Trinocka 2028 2005 Trinocka 2028 The Sneegy Authority 2077 2005 The Sneegy Authority	Purchases - Secondary Secondary Purchases - Secondary Secondary Sales for Recian Secondary Purchases - Secondary Purchases - Secondary Secondary	Susteen	Yes Te	den Energy (PFL Energy Plus) marks he Energy Authority he Energy Authority	114,179.00 114,114.00 -11,297.00 54,690.00	81.880.00 114.114.00		0.00 0.00				
2027 2008. The Energy Audhoritis 2009 2008. Transakta Energy Markedina 2020 2008. Transakta Energy Markeding 2028. 2008. Transakta Energy Markeding 2022. 2008. Transakta Energy Markedina	Punthased Secondary Secondary Sitesthone - Duf Secondary Selector Secondary Punthased - Secondary Sitesthone - Se		Yes 75 Yes 76 Yes 76 Yes 76 Yes 76	e Energy Authority southts Energy Marketing southts Energy Marketing southts Energy Marketing southts Energy Marketing	1090 210 00 -200,681.00 180,612.00 1090,210.00	41.111.00	1.004.07 22.296.68	0.00				
1221 2006 TransCanada Energy Marketing 1279 2006 TransCanada Energy Marketing	Salector Recale Secondary Purchases Secondary Secondary	SysSem SysSem	Yes To	ancarada Energy Matering ancarada Energy Matering	14,679.00 11,289.00		1.004.07 296.007.48 804.89 0.00					
2080 2006 Transcende Power Core. 2022 2006 Twinock origination Distinct 2081 2006 Twinock tregation Distinct	Purchases Secondary Sales for Recale Secondary Purchases - Secondary Secondary	System System System	Tes To Tes To Tes To	BerCanada Power Core. urlock tregution Shorks urlock tregution Shorks	5.125.00 -2,885.00 6.176.00		100.07 28224 100.07 17118	-1.09M 6.00				
1228 2008 UBS AG 2002 2008 UBS AG 2236 2008 Western Area Power Association 2008 2008 Western Area Power Association	Sales for Recate Secondary Purchases - Secondary Secondary		Yes 18	IB AG IB AG In Dann, Area Power Accounts In Dann, Area Power Accounts	-1,600.00 80,600.00 -275.00 796.00	X.MELOD EL20020	1010 110171	0.00				
	secondary Secondary	aguareti			78.00 5,611,622.01 2,832.791.59 -91,023.66 2,783,286.70	101.00	1,034.07 206.87 2,892,799.59 Short Tons Short Tons	-80,005.68 Sum of tangeoffed short tan ex	score only			
			Uniquested Em	modes - Sum of All Matths Commerce Fate Ret Difference (Setting - Sum)	21.678.20		Short tons					
			Ci Lia	find Emissions. Factors Method Delineros; pecthed Emission: Fetting Methods Casic Couper - Saum of all With a Commerce State And Delineros Section - Source (El Court + Print Rule to 2008 moments Rule to 2008 magnetine Saue:	\$13.89 1.000.67 4,340,698.00 10,780,880.00							

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SacOnder Year Facility/Firm	Type Primary/Seconda	ly Clast Puel (Primary) Di Se	er Generation Facility / Non- ne FIE Load)	5500	Not Math. But C	Unspecified Delivered Commerce Note	Unspecified Sales PSE Own-Pinn Rate	TRANSMATERS ***********************************
200 201 Control form 100 Control form 1	Generation - Park Generation - Generation - Park Generation - Generati	Renewable Ye Renewable Ye Renewable Ye Renewable Ye	Section of the control of the contro	01.00.2 No. 1892.75.62 - 4,00.1 Er - 486.00 - 1897.72.1 M - 4,00.1 Er - 486.00 - 1897.72.1 M - 4,00.1 Er - 4,00.1				16-01 16-02 16-03 16-03
BOD 2012 Monthson Maria Part 2012 Monthson Monthson Maria Part 2012 Monthson Monthson Maria Part 2012 Monthson Monthson Monthson Maria Part 2012 Monthson Month	Generation - Steam PSE Generation Generation - Steam PSE Generation Generation - Steam PSE Generation Generation - Steam PSE Generation Generation - Steam PSE Generation	Renorwalder Renorw	CONZIND TAZ 2 CONZIND TAZ 6 Encloses Fernalis Co-Generation Friedle El	1,424,895.05 2,885,1895.02 108,457.07 1,407.07 175,177.48	2 2 1 1	1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	1,330,100.05 1,300,821.00 11.630.16 11.630.16 120,996.94 120,996.94 120,626.11 100,327.22 826.228 130,621.14 14,372.94 42.900.81	Call Application for Section (Control application for Section (Control application for Section for Sec
2018 2017 Galdendane 2018 2011 Maintyan 2018 2011 Samad 2018 2012 Cyclid Mauritan 2018 2017 Tendonia	Generation - Steam PSE Generation Generation - Steam PSE Generation Generation - Steam PSE Generation Generation - Ohl/Sac/Wir PSE Generation Generation - Ohl/Sac/Wir PSE Generation	GAS TO GAS TO GAS TO GAS TO	G Quide-nizine G Mills Taxini G Surriad G Could Mountain G Prediction	909,096,57 1,098,096,57 223,709,87 298,29 17,183,70	1	8.66 H8[602.52 93.30 677,772.57 69.70 117.687.35 179.75 20.828.87 170.76 128.338.60	635,636.51 106,537.22 635,630 136,631.16	600 levering 102a 600 levering 102b 600 levering 102b 600 levering 102b
2755 2717 Freedomin 3 & 4 2755 2717 Freedomin 5 & 4 2727 2717 Freedomin 6 & 7 2727 2717 Freedomin 6 & 7 2728 2717 Comparison Freedomin 7 2728 2727 Comparison Freedomin 7 2728 2728 2728 2728 2728 2728 2728 27	Generation - OI/GaL/Wir PSE Generation Generation - OI/GaL/Wir PSE Generation Generation - OI/GaL/Wir PSE Generation Generation - OI/GaL/Wir PSE Generation Generation - OI/GaL/Wir PSE Generation	Gas Ye Gas Ye Renewable Ye Renewable Ye	FREGUNE SE E FREGUNES SE E FRE	25,880.00 81,680.00 600,689.00 754,781.18	3	86.87 34,068.91 86.36 67.899.06 1.00 0.00 1.00 0.00	14,372 M 42 MOAS 75,762 70	World
2006 2012 Wild Horse PR/2008 2012 SEAN GWANN TWENNE ESSLIC 2009 2012 SEAN DWANN TWENNE ESSLIC 2009 2012 SEAN DWANN TWENNE ESSLIC	Secretion - Olifaci Wit PSE Generation Purchases - Paris Principles Purchases - Paris Principles		\$ Wild Harve (WISEE) Sure PM \$ 3 Kin G Wiled Turbine 25 CCC \$ 25 Kin G Wiled Turbine 25 CCC			110101	Fit fale	West
100 100	Address Addr	Teacher Teac	The Control of March And	98M 125 Find 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		100		Myles The investment care is alreadous on care transit care trans
2016 2012 CC Nation 1 and CC Soldar 2 2010 2012 Checken PLO- Nie RW 2018 2011 Checken PLO- Rock Nation Syst E2 2018 2011 Checken PLO- Rock Nation 5 and 5 an	Purchases - From From Promary	Renewable Ye Renewable Ye Renewable Ye Renewable Ye Renewable Ye	C C Boller Sand C Boller 2 Chellan PUD - N B RB Chellan PUD - Nackisland Syct R2 Chellan PUD - Nackisland Syct R2 Chellan PUD - Nackisland Syct R2 Decide PUD - Nackisland Syct R2	3.08 2,900,900.00 716,627.00 -92,276.00 979,900.00		100 0.00 100 0.00 100 0.00 100 0.00		Framework of the antiests and indicates and indicates the first in
201 201 Rained Daily DC 2012 2011 Rain Rowel Lynder DC 2018 2011 Rain Rowel Ravidle LC 2016 2011 Good PCD - Princi Enable Points 2011 2014 County PCD - Princi Enable Points	Purchases - From From Primary	Renewable Ye Renewable Ye Renewable Ye Renewable Ye	Edition Dairy 12C Fain Power Update 12C Fain Power Update 12C Fain Power Warvelle 12C Good PLD - Princip Reside Project Standard PLD - Princip Reside Project Standard PLD - Princip Reside Project	1,395.96 4,387.86 5.801.07 71.368.02		100 0.00 100 0.00 100 0.00 100 0.00		Biginin Biginin Barinin Mala
2006 2017 JP Morgan Ventures Energy 2007 2017 Klandall Falls (See Holista 2008 2012 Klandale World Power III 2009 2012 Klandales World Turkine III	Purchases - From From Primary Purchases - From From Primary Purchases - From From Primary Purchases - From From Primary	System Ye Gai Ye Renewable Ye Renewable Ye	If Margan Tendures Energy Klanath Falls (Bendurla) Klanath Wind Power III Klanath Wind Turbine E1	109,389,00 100,00 124,794,00 134,73		8.75 182,603.68 1.00 0.00 1.00 0.00		CCCT COMMI 33.177/018 MR.488 2.303.619 NO Traderloss MY-CPF TIOL ask 40-50 half-use MMME for Each and Med Gas MMMM from REP.401 in the resortion ware Wind
2011 2012 Guides below 2012 2012 Randow Bio Gaic 2013 2012 Randow Bio Gaic 2013 2012 Randow Bio Gaic 2013 2012 Randow Bio Gaic People 2010 2012 Randow Bio Gaic People	Purchases - From Prime Primery Purchases - From Primery Purchases - From Primery Purchases - From Primery Purchases - From Primery	Renewable Ye Renewable Ye System Ye Renewable Ye	Countries Comp. Countries Construction Countries Countri	1.602.00 56.26 69(126.00 6,621.00		100 0.00 100 0.00 6.75 106,176.86 100 0.00		Sanion Sanion Mysi
2276 2012 Sealed Willed 2278 2012 Van Dan - Shekkelen 2279 2012 Vanderbeak Dany Digeder 2280 2012 WildCoopen	Purchases - From Prime Primery Purchases - From Primery Purchases - From Primery Purchases - From Primery	Renewable Ye Renewable Ye Renewable Ye Renewable Ye	Sanisk Wind Sanisk Wind Was DN: Sanisk Wind Was	29.40 2.902.12 1,588.12 80,227.00		100 0.00 100 0.00 100 0.00 100 0.00		Mariel Sharin Signor Mydra
2012 2012 Bio Environ Michigania I BEWN 2018 2012 Michigania Coreek 2010 2012 Konin Kuntun Accopation 2013 2012 Linke Washington - Francisch 2018 2012 Nicolaciak	Purchases FURFA From Primary Purchases FURFA From Primary Purchases FURFA From Primary Purchases FURFA From Primary	Recovable to Recovable to Recovable to Recovable to	E Bio Environ Watchination (BDW) Matchination Cheek Kenna Kuhthan Association Lake Watchington — Pron Hill Mooduck	2.503.56 62,559.26 95.66 29.296.78		100 0.00 100 0.00 100 0.00 100 0.00		NAME TO A STATE OF THE STATE O
200	Nucleoci-PUBPI. Frankristav Nucleoci-PUBPI. Frankristav Nucleoci-PUBPI. Frankristav	Renewable Ye Renewable Ye Renewable Ye	C Poil Sounderfollment Co. C Toglibacic Cries C Twin Ratic Hydro C Weeks Falls	1,019.05 1,019.35 19,827.30 17,113.60 3,689.270.99		100 0:00 100	All Faces	Biolisado CESTAS TESTAS TAGES IN THE PROPERTY OF THE ALC
2011 2012 AvellaCole, WAP Challen 2015 2012 AvellaCole, WAP Challen	Sales for Recate Secondary Purchased - Secondary Secondary	System Ye System Ye	S AWAZIA Corp. WWWP Division S AWAZIA Corp. WWWP Division	-87,129.00 129,962.18				ma.
2012 2012 Bartlavi Bark Pic 2017 2012 Bartlavi Bark Pic	Sales for Recale Secondary Purchases - Secondary Secondary	Suiden Ye Suiden Ye	G Barclauc Bank Pic G Barclauc Bank Pic	-2.400.00 22.000.00		8.18 40,967.03 8.18 8,890.71	0.00	
2018 2012 Black Hills French 2788 2012 Black Hills French 2799 2012 Black Cuts - 1879 00-11 2018 2012 Block Cuts - 1879 00-11	Sales for Recale Secondary Purchases - Secondary Purchases - Secondary Sales for Recale Secondary	System Tr System Tr System Tr System Tr		-18,002.00 1.600.00 -2,426,007.00 2,877,267.00		R.29 0.00	-14%20	Make 1 and the well-to-fide for the color for the access of Make care PER Logic to bad
2015 2012 RP Decely Co. 2020 2012 RP Decely Co.	Sales for Resale Secondary Purchases - Secondary Secondary	Swiden Ye Spiden Ye	E BP Energy Co. EP Energy Co.	-97.795.00 1,296,055.00		N.18 202.808.29	0.00	
2018 2011 995 2017 2011 995 2008 2011 995 2010 2011 995 2011 995 2011 50105 Culturado Tonominio Coru	Sales for Metale Secondary Intendiance - Chil Secondary Steedlange - In Secondary Purchases - Secondary Sales for Metale Secondary	Suckers Ye Suckers Ye Spickers Ye Spickers Ye Suckers Ye		-167.151.00 -35.275.00 35,596.00 384,112.70	287 189.70 -97.00	8.18 307.309.17 8.29 0.00	0.00	
2018 2012 Brookfield Energy Manacing 2008 2012 Brookfield Energy Marketing	Salector Reside Secondary Purchases - Secondary Secondary	System Ye System Ye	s Bookfeld teepy Makering Bookfeld teepy Makering	-2,000.00 1,200.00		n.n 000	-98.00	
2009 2012 Calcine Energy Services 2005 2012 Cappine Energy Services 2000 2012 Cappill Police Markets 2006 2012 Cappill Police Markets	Sales for Recale Secondary Purchases - Secondary Secondary Sales for Recale Secondary Purchases - Secondary Secondary	System Tr System Tr System Tr System Tr		-127.687.00 687.588.00 -801.826.00 293.098.00	101/131/00	1.11 10(H11H1	0.00	
2011 2012 Chelas County PUD 05 2007 2012 Chelas County PUD 05	Salector Resale Secondary Purchases - Secondary Secondary	System Ye Seldem Ye	Chelan County PUD ES Chelan County PUD ES	-6,685.00 124.085.00		8.25 0:00 8.16 \$8.261.09	-24,750.09	
2012 2013 CHISCHOO STORED NO. 2019 2013 ChiSCHOO STORED NO. 2013 CLIS Public Unitine 2019 2012 CLIS Public Unitine 2019 2012 CLIS Public Unitine 2019 2013 CLIS Public Unitine	Salector Recate Secondary Purchases Secondary Secondary Salector Recale Secondary Purchases Secondary Secondary	System Ye System Ye Sustem Ye System Ye	Clark Public Utilities Clark Public Utilities	-91,176.00 1,004,006.00 -18,800.00 26,768.00		11.11 £13.81£26 11.11 3,826.37	0.00	
2006 2011 CAROAMO PUD 2011 2012 CAROAMO PUD 2005 2011 CAROAMO PUD 2005 2011 CAROAMO POWY SOAVU, SS. 2013 2012 CAROAMO POWY SOAVU, SS.	Sales for Recale Secondary Purchases - Secondary Secondary Sales for Recale Secondary Purchases - Secondary Secondary	Suiden Ye Suiden Ye Syiden Ye		-0.007.00 11.009.00 -22,085.00		8.11 (A08.37 8.11 2.06.22	0.00	
2005 2012 Controllediation Power Shorter, Inc. 2018 2012 Controllediation Power Shorter, Inc. 2006 2012 CP Energy Marketing (Epoid) 2015 2012 CP Energy Marketing (Epoid)	Salector Recale Secondary Purchases - Secondary Secondary	System Ye System Ye Sustem Ye System Ye	CP Energy Marketing (Special CP Energy Marketing (Special	-22,385.00 61,386.00 -5.296.00 1,386.00		8.18 28.508.18 8.29 0.00	0.00	
2007 2012 DB Energy Trading IIC 2013 2012 DB Energy Trading IIC 2029 2012 Defencial Offices 2029 2012 Defencial Offices	Sales for Recale Secondary Purchases - Secondary Secondary Generation - CA)(Sac/War Secondary Generation - Steam Secondary	Suiden Ye Suiden Ye Suiden Ye Suiden Ye		-363.966.00 903.066.00 -305.66 -52.86		B.11 134,995.46	0.00	
2279 2012 Delevision (Sien S 2013 2012 Devision (Sien Filher 2006 2012 Deutik County Filher 2017 2012 Deutik County Filher	decestion - Secondary Interchange - Out Secondary Sales for Neutle Secondary Purchases - Secondary Secondary	Suidem Ye Spidem Ye Suidem Ye Suidem Ye	s Deviation	-02.56 62,756.56 -1.626.00 886.822.00	-19600 60,73639	8.25 0.00 8.16 26,289.17	-0X.90 0.00	
2017 2012 Double County PUD-90 2019 2012 EDF Trading Tellico 2019 2012 EDF Trading Tellico	Salector Reside Secondary Purchases - Secondary Secondary	System Ye System Ye System Ye	EDF TOLDING NATUR	-14,815.00 222,610.00		8.10 250,366.25 8.10 85.238.25	0.00	
2000 2012 EMBER Energy Madering, Inc. 2000 2012 EMBER Energy Madering, Inc. 2011 2012 Easene Wiler & Electric 2012 2012 Easene Wiler & Electric	Sales for Recale Secondary Purchases - Secondary Secondary Sales for Recale Secondary Purchases - Secondary Secondary	System Tr System Tr System Tr System Tr		-225,00 75,00 -17,868,00 62,962,00		6.25 0.00	47.00	
2012 2012 Exelun-Generation Ca LLC 2018 2012 Partie BC	Salector Resale Secondary Salector Resale Secondary	System 19 System 19	Exelos Generation Co SIC	-2,800.00		8.19 11,912.06 8.29 0:00 8.29 0:00	-1,255.00 -25.172.02	
2015 2012 Grant County PLD 82 2012 2012 Grant County PLD 82 2013 2012 Bendrick Revealables (PPM.Energy) 2015 2012 Bendrick Revealables (PPM.Energy)	Sales for Resale Secondary Purchases - Secondary Secondary Sales for Resale Secondary Purchases - Secondary Secondary	3yllen Ye 3yllen Ye 3yllen Ye 3yllen Ye		-11,609.00 86.006.00 -961,676.00 861,962.00	36.985.00	11.10	0.00	
2031 2012 (Selectivity Recomplete (PPM Energy) 2035 2012 (Salin Frühr Power 2036 2012 (Salin Power Company 2035 2012 (Salin Power Company	Purchases Secondary Purchases Secondary Sales for Reside Secondary Purchases - Secondary Purchases - Secondary Secondary	System Ye System Ye System Ye System Ye	s status fulls Fower	29.00 29.00 -29,009.00 10,002.00	29.706.00 21.00	8.11 8.807A7 8.11 11.29	0.00 0.00	
2017 2012 1 Avan & Company 2019 2012 1 Avan & Company	Salector Necale Secondary Purchases Secondary Secondary	Swiden Ye Spiden Ye	L Anna & Camazov L Anna & Campany	-2.800.00 2,400.00		6.25 0.00 6.25 0.00	-17905	
2018 2012 JF Minister Verdame Energy 2019 2012 JF Minister Verdame Energy 2011 2012 Mertill (pub Commodities	Salector Becale Secondary Purchases Secondary Secondary Purchases Secondary Secondary	Sustem 19 Sustem 19 System 19		-12.186.00 1.278.611.00 299,356.00	1,236,677.00 200,006.00	8.18 955,896.21 8.18 121,692.21	0.00 0.00	
2019 2012 Montain-Stander Cit 2012 2013 Montain-Standery Cit 2010 2012 Natur Serv USA. 2014 2012 Natur Serv USA.	Salector Recale Secondary Purchases - Secondary Secondary Salector Recale Secondary Purchases - Secondary Secondary	Suiten Ye Spilen Ye Suiten Ye Suiten Ye		-30090800 1,078,808.00 -6.00 68.00	767,888.00	11.11 100,326.89	0.00	
2011 2012 NewSilla Snergy Power Marketing 2013 2012 NewSilla Snergy Power Marketing	Salector Reside Secondary Purchaser - Secondary Secondary	System Ye Sustem Ye	Medica Energy Power Marketing Medica Energy Power Marketing	-2,799.00 119.995.00		B.18 209.30 B.18 50.212.61	0.00	
2012 2012 Nulsie Americas Energy Solutions. 2018 2012 Nulsie Americas Energy Solutions. 2018 2012 Nulsie Americas Gas. & Power 2017 2012 Nulsie Americas Gas. & Power	Salector Recale Secondary Purchases - Secondary Secondary Salector Recale Secondary Purchases - Secondary Secondary	System To System To System To System To		-2.800.00 800.00 -7.600.00 800.00		6.25 0.00	en.as	
2010 2017 North-Point Energy Solutions, Inc. 2019 2017 North-Point Energy Solutions, Inc.	Sales for Recale Secondary Purchases - Secondary Secondary Sales for Recale Secondary Purchases - Secondary Secondary	System Ye Switem Ye	NorthPuint Energy Solutions, Inc. NorthPuint Energy Solutions, Inc.	-8,406.00 6.00		6.25 0.00 6.25 0.00	-8,065.86	
2005 ZILZ Nurthwestern Briegy 2000 ZILZ Nurthwestern Briegy 2006 ZILZ Observages PUD 2011 ZILZ Observages PUD	Sales for Resale Secondary Punchases - Secondary Secondary	System Ye System Ye System Ye System Ye		-81,691.00 1,618.00 -671.00 1,607.00		n.m 000	-96.291.02	
2015 2017 Faith Cost & Elec - Exchange 2009 2017 Faith Cost & Elec - Exchange 2007 2017 Faith Cost & Elec - Exchange 2017 2017 Faith Commont Energy LLC 2017 2017 Faith Commont Energy LLC	intendiande - Out Secondary Intendiande - In Secondary Sales for Recale Secondary Publisher - Secondary Secondary	Suiden Ye Suiden Ye Spiden Ye Spiden Ye	Facific tack tiec - Exchange Facific tack tiec - Exchange	-033,999,00 633,000,00 -680,00 3,179,00		8.11 69.36 8.11 2.26	0.00	
2008 2012 Paulhoss 2008 2012 Paulhoss	Salector Necale Secondary Purchases Secondary Secondary	Swiden Ye Spiden Ye	s Pacificra Factory	-116.893.00 76,562.00		8.11 BR.22 8.29 0:00	0:00 -18(0)2.68	
2019 2212 PGES Energy Todains 2014 2212 PGES Energy Todains 2010 2212 Politiand General Electric 2015 2212 Politiand General Electric	Sales for Recale Secondary Purchases - Secondary Sales for Recale Secondary Purchases - Secondary Secondary	Sellen Tr Sellen Tr Spilen Tr		-216.180.00 70.000.00 -72,990.00 26.609.00	-14,550.00	6.25 0.00	-60,590,18	
2071 2012 Powers Corp. 2006 2012 Powers Corp.	Salector Reside Secondary Purchases - Secondary Secondary	SysSem Ye SysSem Ye	6 Planetta Cirip. 6 Planetta Cirip.	-804,510.00 211,003.00	-0X174.00	8.25 0.00 8.25 0.00		
2012 2012 Manhow Energy Marketing 2017 2013 Manhow Energy Marketing 2013 2012 Sacketech Manicald 2009 2012 Sacketech Manicald	Salector Recale Secondary Purchases Secondary Salector Recale Secondary Purchases Secondary Secondary	System Tr System Tr System Tr System Tr		-18.508.00 21,628.00 -10.011.00 8.686.00	-81,218.00	6.25 000	-15,764.58	
2010 2012 Sandings Gas & Directors 2010 2012 Sandings Gas & birectors	Salector Reside Secondary Purchases - Secondary Secondary	System Ye System Ye	San Diego God & Shedric San Diego God & Shedric	-29,908.00 493.00		n.m 000 n.m 000	-2.805.50	
2013 Seattle-City Light Marketine 2013 2012 Seattle-City Light Marketing 2013 2012 Shell Seesay Liquid Facility 2012 2012 Shell Seesay Liquid Facility 2012 2012 Shell Seesay Liquid Facility		Suiten Ye Spilen Ye Suiten Ye Suiten Ye	s Shell Breste (Costi Pari) s Shell Breste (Costi Pari)	-06.389.00 206,012.00 -296.298.00 182.298.00		111 90270.86		
2077 2012 Sienz Facific Power 2018 2012 Seubornob-County-PUDE1 2054 2012 Seubornob-County-PUDE1	Sales for Resale Secondary Sales for Resale Secondary Publisher - Secondary Secondary	System To System To System To	s Siera Facilic Power	-1,562.00 -9.562.00 176,061.00		6.25 0.00 6.25 0.00		
2079 2012 Southern Cal - Silvan 2013 2013 Southern Cal - Silvan	Sales for Mesale Secondary Purchases - Secondary Secondary	Sellen Ye Sellen Ye	Southern Cal - Billion Southern Cal - Billion	-20.000.00 62.608.00		0.10 70,290.00 0.10 20,202.00		
2000 2011 TallmanPower 2017 2012 TallmanPower 2012 2014 (1974 Sheeky Plac) 2012 2112 Tales Sheeky (PPL Sheeky Plac) 2015 2012 Tales Sheeky (PPL Sheeky Plac)		System Ye Sustem Ye System Ye System Ye		-19,428.00 200.088.00 -67,867.00 109,860.00		N.10 EL-064.00		
2012 2012 Tenada Power Services Co. 2010 2012 Tenada Power Services Co.	Sales for Recale Secondary Purchases - Secondary Secondary Sales for Recale Secondary Purchases - Secondary Secondary	Sellen Ye Sellen Ye	E Tenadia Pawer Services Co. E Tenadia Pawer Services Co.	-16.412.00 82.812.00		8.19 1(728.11 8.29 0:00		
2003 2012 The Energy Authority 2013 The Energy Authority 2014 2012 Transistic Energy Marketing 2012 2012 Transistic Energy Marketing	Salector Reside Secondary Purchases - Secondary Secondary	System Ye Sustem Ye System Ye System Ye	t Translate Breigy Marketing Translate Breigy Marketing	-94,994.00 037978.00 -045,993.00 1,404,993.00		0.11 290.891.87		
2008 2012 Transcanada tenne Marketina 2008 2012 Transcanada tenney kann LM 2004 2011 Transcanada tenney kann LM	Purchases - Secondary Secondary Sales for Recase Secondary Purchases - Secondary Secondary	System Ye System Ye System Ye		200:00 -01,101:00 -200:00	ML00100 200.00			
2007 2011 To folio Generation and Sciencesia 2005 2012 To folio Generation and Sciencesia 2008 2012 Teffock Projection Colored 2008 2012 Teffock Projection Colored	Sales for Recale Secondary Purchases - Secondary Secondary Sales for Recale Secondary Purchases - Secondary Secondary	System Ye System Ye Sustem Ye Sustem Ye		-12,699.00 136.00 -1.606.00 ILMEL00	-01791.00			
2006 2012 Turbock broading District 2009 2012 Western Area Power Association	Purchased Secondary Sales for Resale Secondary	System Ye	G Western Area Power Association	1.161.00 -807.00 3.727.006.68		6.25 0.00 6.25 0.00 ERGERIZO		and discussful delities remove ands
			Unspecified Emissions - Retting Method Deliveries Unicarcified Emissions - Nettina Methods Lains Lincarcified Emissions - Turn of All MMN is Commerce Rate	4,901,902.00 -621.001.69 8.689.299.05	50 50	E Tons E Tons		
			Rec Difference (Secting - Swill) FIX Charl + From Rade in 2002 Commercia Rade in 2002	1,611.67 893.25 903.11	50.	ETons		
			Unicarcitled Sales Decarding Purchases	-7.508.002.00 56.675.008.48				

Report all cales and ourshaces unauxitely for each studing entity for cales company; there is being entitled on side. Most purchases Dayl, of Commerce's fault are entitled on the purchases Dayl, of Commerce's fault may entitled on the purchases.

					Drus Generation				2016 Report	Unspecified	Unspecifie	All Emission Rate de Emission Fettor MARSH, From Eld. Tone Store Ton. Total Net Calculated Emission
Sort Order Ye	nar Facility/Firm	Туре	Primary / Secondary	Claim Fuel (Primary)	Does Generation Serve PSE Load?	Facility / Firm	MWh	Net MWh	bs CO2/MWh	Unspecified Delivered Commerce Rate	Sales PSE Own+Firm R	sel Ensistents Sector - MANUSE (Ports EL Telad Dect Total Dect Tot
3237 3238 3239 3240	2016 Innuer Balter 2016 Concustoria Calle #1 2016 Concustoria Calle #2 2016 Unique Balter 2016 Unique Balter	Generation - Mater Generation - Mater Generation - Mater Generation - Mater	PSE Generation PSE Generation PSE Generation PSE Generation	Renewable Renewable Renewable Renewable Coal Coal	Yes Yes Yes	I maser Baleer Connectionia Calle #1 Connectionia Calle #2 Literary Baleer	258.832.60 53.046.20 152.538.00 369,104.94 1,958,039.00		0.00 0.00 0.00 0.00 2,336.88	0.00 0.00 0.00		
2238 2240 2341 2342 2342 2344 2346 2346 2347 2248 2243 225 225 225 225 225 225 225 225 225 22	2016 Upper Baker 2016 Colorio 1 & 2 2016 Colorio 2 & 4 2016 Encomo	Generation - Hydro Generation - Steam Generation - Steam Generation - Steam, Oil I	PSE Generation PSE Generation B PSE Generation	Coal Coal	Yes	Upper Baker Colutrio 1 & 2 Colutrio 3 & 4 Encogen			2,336.88 2,171.56 1,075.44	0.00 2,287,853.83 2,791,697.31 114,206.16		From CEMS Report (Subgest O) / Part 75 / Acid Rain From CEMS Report (Subgest O) / Part 75 / Acid Rain
3246 3245 3246	2016 Encoden 2016 Ferndale Co-Generation 2016 Ferddie 91 2016 Goldendale 2016 Mist Farm	Generation - Steam, OII I Generation - Steam, OII I Generation - Steam, OII I Generation - Steam, OII I	& PSE Generation & PSE Generation & PSE Generation	Coal Gas	Yes Yes Yes	Encagen Fendale Co-Generation Freddle #1 Goldendale	212,390.30 741,136.77 417,524.86 1,028,475.00		2,171.56 1,075.64 1,075.64 1,075.28 868.74 825.04 825.04 922.23 1,072.72 1,722.20 1,751.41 1,240.24 2,345.75 0.00 0.00	181,361.02		
3247 3248 3249	2016 Mint Farm 2016 Sumas 2016 Crystal Mountain	Generation - Steam, OI I Generation - Steam, OI I Generation - Steam, OI I Generation - OI/Gas/WI Generation - OI/Gas/WI Generation - OI/Gas/WI Generation - OI/Gas/WI	& PSE Generation & PSE Generation in PSE Generation	Gas Gas Oil	Yes Yes Yes	Mint Farm Sumas Crystal Mountain	1,057,946.80 394,996.20 196.41 108,950.50		902.33 1,073.72 1,732.20	477,307.54 212,058.63 170.11		CPA GNG MRR Subpart C (40 CFR RR 33) Tier 4, 0.128 MMRbulgallon
3253 3254 3255	2016 Summa 2016 Summa 2016 Crystal Mountain 2016 Feedonis 1 & 2 2016 Feedonis 1 & 2 2016 Feedonis 2 & 4 20	Generation - Ol/Gas/Wi Generation - Ol/Gas/Wi Generation - Ol/Gas/Wi	in PSE Generation in PSE Generation in PSE Generation	Gas Gas Gas	Yes Yes	Fredonia 3 & 4 Fredonia 3 & 4 Fredonia 1 & 2 Hookins Rider (W186) Lower France Riter Wilshorm 2& 2 Middle Riter	106,950.50 136,862.60 19,942.31 417,242.31		1,751.41 1,240.24 2,345.75	95,408.61 84,870.97 33,360.99		
3258 3261 3262	2016 Lower Snake River 2016 Whitehorn 2&2 2016 Wild Horse (W182)	Generation - Ol/Gas/Wi Generation - Ol/Gas/Wi Generation - Ol/Gas/Wi		Renewable Gas Renewable	Yes Yes	Lower Snake River Whitehorn 28.2 Wild Hone (W282)	873,260.06 23,783.05 672,199.75		0.00 2,930.29 0.00	424,267.06 477,307.54 212,058.63 170.11 95,408.61 84,870.97 23,360.99 0.00 0.00 49,466.99 0.00		
						Sum PSE PSE Renewable	11,577,607.66 2,896,223.87				PSE R	Ease 1,221.77
2041 2046 2046 2046 2046 2046 2046 2046 2046	2016 3 Bar of Witter Tunkne #2 11 or 2016 of the there the bland the barrier 10 of the the bland the bland 10 of the bland 10	Borrhaus - Cime Dorrhaus - Cime Dorrhaus - Cime Dorrhaus - Cime Parchaus - Fire	Firm Primary Firm Primary Firm Primary	Denemakin Contem Denemakin Renewable Not applicable	Yes Yes Yes	3 Bar C Wilnet Turbine 83 I I C BC Water (Deine Debasts) Bin Course Washinston (BCW)	147.73 19.758.35 5.25		0.00 1001 86 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 9.897.53 0.00		Switzern conwer but Firm Contracts
3266 3267 3268	2016 Black Creek Hydro Inc 2016 Book Outs - E1TF 03-11 2016 Bpg	Purchases - Firm Purchases - Firm Purchases - Firm	Firm Primary Firm Primary Firm Primary	Renewable Not applicable Renewable	Yes Ss Yes Yes	Black Creek Hydro Inc Book Outs - EITF 03-11 BPA	12,262.77 -2,580.00 7,084.00 398,392.00		0.00 0.00 0.00	0.00 0.00 0.00 199,565.97		For correcting table & purchases on same fine at same fine, assign zero emission rate Sentem movem that Ferr Contract)
3270 3271	2016 SPA Firm - WNPRI Exchange 2016 CC Solar 1 and CC Solar 2 2016 Chelan PUD - RI & RR	Purchases - Firm Purchases - Firm Purchases - Firm	Firm Primary Firm Primary Firm Primary Firm Primary	Svatern Renewable Renewable	Yes Yes	BDA BDA SELF USET BDA	28.61 2,313,083.00 -39,689.00 -82,394.00		0.00	0.00 0.00 0.00 0.00		System power (out into Contract)
3273 3274 3275	2016 Chelan PUD - Rocks Reach 2016 Doualis PUD - Rocks Reach 2016 Doualis PUD - Wells Project 2016 Doualis PUD - Wells Project	Purchases - Firm Purchases - Firm Purchases - Firm		Renewable System Renewable Renewable Renewable Renewable Renewable	Yes Yes	Chelan PUD - Rocks Reach Doualas PUD - Wells Project Edaleen Daily LLC			0.00	0.00		
3276 3277 3278	2016 Farm Power Lynden LLC 2016 Farm Power Recylle LLC	Purchases - Firm Purchases - Firm Durchases - Eirm	Firm Primary Firm Primary Firm Primary Firm Primary	Renewable Renewable	Yes Yes Yes	Edsheen Caller LLC Farm Power Livedn LLC Farm Power Resculls LLC Grams PLCS - Priest Faudic Project Island Commanie's Volum LLC Klamani Falls (Bendrola) Klondike Wilder Power III Koudes Wind Turbine #1	4,644.83 4,514.47 5,137.96 60,243.00		0.00	0.00 0.00 0.00 0.00		
3279 3280 3281	2016 Island Community Solar LLC 2016 Island Community Solar LLC 2016 Island h Salar (Bendrola) 2016 Island Wind Power III 2016 Knudsen Wind Turbine #1	Purchases - Firm Purchases - Firm Purchases - Firm	Firm Primary Firm Primary Firm Primary Firm Primary	Renewable Gas Renewable	Yes Yes	Island Community Solar LLC Klamath Falls (Bendrola) Klondike Wind Power III	59.34 200.00		0.00 807.08 0.00	0.00 0.00 80.71 0.00		CCCT 0.055844 16,710,165 979,639 2,427,619 807 Factor from EPA CPP TSC, pp. 41-50; fuel use MM88ta (for Elec) and Not Gen (MWR) from EIA-922 in the reporting year
3282 3283 3284	2016 Knudsen Wind Turbine #1 2016 Rainier Bio Gas 2016 Skookumchuck Hydro	Purchases - Firm Purchases - Firm Purchases - Firm	Firm Primary Firm Primary Firm Primary	Renewable Renewable Renewable	Yes Yes Yes	Knudsen Wind Turbine #1 Rainier Bio Gas Skookumchuck Hedro	128.58 4,372.08 4,450.19 193.25 11.177.98		0.00 0.00 0.00	90.71 0.00 0.00 0.00 0.00 0.00 0.00		
3285 3286 3287	2016 Ration Well Library 91 2016 Ration Bloom 2016 Senth Creek Hudro 2016 Senth Creek Hudro 2016 Caronal Word 2016 Transalts Controlls Conception 11 C	Purchases - Firm Durchases - Eires Durchases - Eires Durchases - Eires	Firm Primary Firm Primary Firm Primary	Renewable Denewable Coal	Yes Yes	Kamer wo talk Skookumchuck Hedro Smith Creek Hedro Care & Wind Transits Centrals Consention 11C			2.411.08			Coal contract by 0.10711 51.512.949 5.517.552 4.57K.835 2.411 Factor from DPA CPP TSD. co. 41-50: Keel use MMMRs (for Disc.) and Net Gen (MWH) from DIA-922 in the recording wear
3289 3290 3290	2016 Vanderitask Dairy Diseater 2016 Sectron Heldo LLC 2016 December Disease	Purchases - Firm Purchases - PURPA	Firm Primary Firm Primary Firm Primary Firm Primary	Renewable Renewable	Yes Yes	Transition Controlls Consensation 11C Van Dub - Chichenine Vanderikaak Dairy Dieseter Siectson Hydro LLC Emerald City Renewables	3.115.20 3,277.55 166,693.78 36.734.08		0.00	0.00		
3292 3293 3294	2016 Koma Kulshan Associates 2016 Lake Washineton – Fins Hill 2016 Nooksack	Purchases - Firm Purchases - PURPA Purchases - PURPA Purchases - PURPA Purchases - PURPA Purchases - PURPA Purchases - PURPA	Firm Primary	Renewa bie	. de Ves Ves Ves Ves Ves Ves Ves Ves	Koma Kulshan Associates Lake Washinston Finn Hill Nooksack	36,724.08 46,042.64 292.56 24,374.06		0.00 0.00 0.00	0.00 0.00 0.00		
3295 3296 3297	2016 "Transalin Famorials Commercion II F 2016 Van Park - Colorinarias 2016 Vandericias Calaiv Clienter 2016 Charterio Caleira Calaiv Caleira Caleira 2016 Caleira Caleira 2016 Caleira Caleira 2016 Caleira Caleira 2016 Caleira	Purchases - PURPA Purchases - PURPA Purchases - PURPA	Firm Primary Firm Primary Firm Primary	Renewable Renewable Renewable	Yes Yes	Emerald City Renewables Koma Kühlan Ansociates Lake Washinston Finn Hill Noolkauck Sunitonics Creek Tulin Falli Hodro Weeks Falls	907.41 79,876.21 11,111.19		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		
						Firm Renewable PSE & Firm Renewable %	3,922,562.51 6,818,786.38					
						<u> </u>	66.4% 5,909,717.86	% Firm Renewable		2,100,799.44 209,463.49 PSE	All Firm Firm Unspec	710.564 Crited
										PET (Dwn + Firm R	
3298 3390	2016 Transalta Centralia Generation LLC 2016 Autora Coon WAND Plainton	Purchases - Secondary Sales for Barata	Secondary	System System	Yes	Transalta Centralia Generation LLC - Bookout 5 Autors Corn, WIMP Division Autors Corn, WIMP Division	965.098.00 -84.679.00 46.050.00		1.001.86	482 645 24		Section source / Controlla Adlustment. This is subbloade assert raise, Sales to other vention Galas for Resale for the cursors of balancing PSE section load. Our cover over over their load, and you sales inhabitated.
2290 2270 2298	2016 Autors From WAND Districts 2016 Autors From WAND Districts 2016 Autors Corp. WWP Division	Purchases - Secondary	Secondary Secondary	System System System	Yes Yes Yes	Avista Corp. WWP Division	72,218.00	33,590.00 21,796.48	1,001.86 1,001.86	16,826.19 10,918.48	0.00	Secondary purchases to serve PSE load, unusecified
2362 3299	2016 Avista Nichols Pumo 2016 Black Hills Power	Interchanse - In Purchases - Secondary	Secondary Secondary	System System	Yes	Avista Nichols Pumo Black Hills Power	21,796.48 201.00	21,796.48 201.00	1,001.86	10,918.48	0.00	Secondary purchases to serve PSE load, unspecified
3300 3391	2016 Book Outs - E/TF 03-11 2016 Book Outs - E/TF 03-11	Purchases - Secondary Sales for Resale	Secondary Secondary	System System	Yes Yes	Book Outs - ETF 03-11 Book Outs - ETF 03-11	-6,081,614.00 6,084,194.00	2,580.00	1,001.86	1,292.40	0.00	Secondary continues to serve PSE load, assentified This is who leade power sales. Sales to other entities (Sales for Resale) for the purpose of balancing PSE system load.
3392 3301	2016 gp Energy Co. 2016 gp Energy Co.	Sales for Resale Purchases - Secondary	Secondary Secondary	System System	Yes Yes	BP Energy Co. BP Energy Co.	-672,884.00 688,626.00	2,580.00	1,001.86	1,292.40	0.00	This is wholesale power sales. Sales to other entities (Sales for Resale) for the purpose of balancing PSE system load. Secondars ourchasse to serve PSE load, unanotified.
3293 3302	2016 gpA 2016 gpA	Sales for Resale Purchases - Secondary	Secondary Secondary	System System	Yes Yes	BPA BPA	-116,473.00 374,896.00					This is wholesale gower sales. Sales to other entities (Sales for Resale) for the purpose of balancing PSE system load. Secondary ourchases to serve PSE load unspecified
3371 3394	2016 gpg CA Wind Interration 2016 gpg NWPP Reserve Sharing Energy	Transmission by Others Sales for Resale	Secondary Secondary	System System	Yes	8PA - CA Wind Interration 8PA - NWPP Reserve Staring Energy	1,852.74	258,423.00 1,952.74	1,001.86 1,001.86	129,451.49 978.18	0.00	Our power over other fines, 3rd party takes (wholestake) This is wholestake power takes. Sales to other entities (false for Resula) for the purpose of balancing PSE system load.
3394 3303 3372	2016 20A - NWOP Reserve Sharing Energy 2016 20A - NWOP Reserve Sharing Energy 2016 20A - OTD Transactions	Purchases - Secondary	Secondary Secondary	System System System	Yes Yes	89A - NWPP Reserve Sharine Energy 89A - NWPP Reserve Sharine Energy 89A - 979 Transactions	-392.00 233.00 29.252.00	-159.00 39.252.00	1.057.09 1.001.86	0.00 19.662.45	-84.04	Secondary purchases to serve PSE load, unspecified
3373 3374	2016 DDS - Crin Danson Development	Transmission by Others	Secondary	System	Yes	DDA - Cnin Dassen Danstrument	5.037.220.18 194.00	5.037.220.18	1.001.86	2.523.287.93 97.18	0.00	Our gover over other lines. 3rd party sales (wholesale)
2274 2295 2304	2016 British Columbia Transmission Coro 2016 British Columbia Transmission Coro 2016 British Columbia Transmission Coro	Transmission by Others Sales for Resale	Secondary Secondary Secondary	System System System	Yes Yes	BPA IS - Hourly Non-Firm British Columbia Transmission Coro British Columbia Transmission Coro	194.00 -1.00 16.00	194.00	1,001.86	97.18	0.00	This is wholesale power sales. Sales to other entities (Sales for Resale) for the purpose of balancing PSE system load.
3304 3346	2016 British Columbia Transmission Corp 2016 CAISO EESC Load Undertributed Costs	Purchases - Secondary EIM Purchases	Secondary	System	Yes	British Columbia Transmission Corp CAISO EESC Load Undistributed Costs	16.00 -29,390.89	15.00 -29,290.89	1,001.86 1,057.09	7.51 0.00	0.00	Secondary ourchases to serve PIZ load, unascelled Treat these as secondary purchases even if it's a PIZ resource. The way IIM works: Step I) Actual meter read compared to base schedule (in the hour), Step 2) if meter > than base schedule, sale occurred.
3437 3347	2016 CAISO PRSC Underributed Costs 2016 CAISO PRSC Underributed Costs	EIM Sales EIM Purchases	Secondary Secondary	System System	Yes Yes	CAISD PRSC Undstributed Costs CAISD PRSC Undstributed Costs	-9,323.16 26,884.03	17,560.87				Treat these as secondary purchases even if it's a PSE resource. The way SIM works: Step 3) Actual meter read compared to base schedule (in the hour), Step 2) if meter > than base schedule, sale occurred. Treat these as secondary purchases even if it's a PSE resource. The way SIM works: Step 1) Actual meter read compared to base schedule (in the hour), Step 2) if meter > than base schedule, sale occurred.
3325	2016 California ISO	Purchases - Secondary	Secondary	System	Yes	California ISO	33,095.00	17,560.07 23,095.00	1,001.86 1,001.86	8,796.74 16,578.23	0.00	Secondary our beauty to serve PES load_unanceTed This is wholesale power takes, Sales to other entities (Sales for Brasile) for the purpose of balancing PES system load.
3296 3306	2016 Calcine Energy Services 2016 Calcine Energy Services 2016 Canell Orange Markets	Sales for Resale Purchases - Secondary Sales for Resale	Secondary Secondary Secondary	System System System	Yes Yes	Calcine Energy Services Calcine Energy Services Caroll Energy Markets	-198,956.00 169,176.00 -342,611.00 200.00	-29,780.00	1,057.09	0.00	-15,740.0	Secondary purchases to serve PSE load, unspecified
3397 3366 3307	2016 Canell Power Markets 2016 Canell Power Markets 2016 Canell Power Markets	Sales for Resale Interchanse - In Purchases - Secondary	Secondary Secondary Secondary	System System System	Yes Yes Yes	Carell Power Markets Carell Power Markets Carell Power Markets	200.00 812,939.00	470.528.00	1.001.86	235.700.96	0.00	20 This is who insule governales. Sales to other entities (Sales for Resaule) for the purpose of balancing PSES system load. Intentions—a scientistic secretion is convice PSE load. Intention of the convice of the con
3398 3308	2016 Chalos County Bills #1 2016 Chalos County Bills #1	Cales for Basela Durchases - Carnovian	Secondary Secondary	System System	Yes Yes	Chelan County BICLET Chelan County BICLET	-4.00 62.409.00	62.405.00	1.001.86	31.260.45	0.00	This is who leade power sales. Sales to other entities (Sales for Resale) for the ourspose of balancine PSE switters load. Genovators recording to serve DSE load: unrescribed.
3399 3309	2016 Citierous Eneral Inc 2016 Citierous Eneral Inc	Sales for Resale Purchases - Secondary	Secondary Secondary	System System	Yes Yes	Citierous Energy Inc Citierous Energy Inc	-1,101,646.00 1,224,171.00	122,525.00	1,001.86	61,376.28	0.00	This is wholesale gover sales. Sales to other cetties (Sales for Resale) for the purpose of balancing PSE system load. Secondary our haves to serve PSE load unspecified.
3400 3310	2016 Clark Public Utilities 2016 Clark Public Utilities	Sales for Resale Purchases - Secondary	Secondary Secondary	System System	Yes Yes	Clark Public Utilities Clark Public Utilities	-8,175.00 8,332.00	157.00	1,001.86	78.65	0.00	This is who lessle power sales. Sales to other cetties (Sales for Resale) for the purpose of balancing PSE system load. Secondary surchases to serve PSE load unsuccified.
3621 3311	2016 Clatskanie PUD 2016 Clatskanie PUD	Sales for Resale Purchases - Secondary	Secondary Secondary	System System	Yes Yes	Clatskanie PUD Clatskanie PUD	-3,423.00 4,432.00	1,009.00 -22,440.60	1,001.86 1,057.09	505.44 0.00	0.00	This is who lessle power sales. Sales to other cetties (Sales for Resale) for the purpose of balancing PSE system load. Secondary surchases to serve PSE load unsuccified.
3348 3402 3312	2016 Colotrio - Energy Imbalance Market 2016 Conoco. Inc. 2016 Conoco. Inc.	Sales for Resale Purchases - Secondary	Secondary Secondary Secondary	System System System	Yes Yes	Colutrio - Energy Imbalance Market Conoco. Inc. Conoco. Inc.	-22,640.60 -10,425.00 6,600.00	-22,440.60	1,057.09	0.00	-11,860.8	27 Test these is uscording purchase verif it is 2% mource. The way EM works: Sept 31,4ct air meter rend compand to been schedule (in the hour), Sept 31, if meter > than have schedule, said occurred. This is wholesale power sense. Saids so so other vertices (Gales for Resald) for the purpose of balancing YEA system load. Secondary accurates to serve PEX load, according to accurate the Said and according to accurate the Said and according to according to accurate the Said according to according to the Said accor
3403	2016 Constellation Power Source, Inc.	Purchases - Secondary Sales for Resale	Secondary	System	Yes	Constellation Power Source, Inc.	-7.00	-3,825.00 -7.00	1,057.09 1,057.09	0.00	-2,021.68 -3.70	Secondare such ask to serve PSE load. unsecreted This is wholesale power sales. Sales to other entities (Sales for Resale) for the purpose of balancing PSE system load.
3404 3313	2016 CP Energy Marketine Eccori 2016 CP Energy Marketine Eccori	Sales for Resale Purchases - Secondary	Secondary Secondary	System System	Yes Yes	CP Energy Marketine (Epcor) CP Energy Marketine (Epcor)	-2,142.00 500.00	-1642.00	1.057.09	0.00	-867.87	
3366 3405 3314	2016 Develop County DISD #1 2016 Develop County DISD #1 2016 Develop County DISD #1	Interchange - Out Salas For Garata Durchana - Carnoviano	Secondary Secondary Secondary	System System	Yes Yes	Deviation Deviation County B1D #1 Deviation County B1D #1	18.141.77 -1.946.00 281.095.00	-1,642.00 18.141.77	1,057.09 1.001.86	9.087.73	0.00	Interchares-out, succondaries nurchases to service PSE load unspecified This is wholesale power sales. Sales to other entities (Sales for Assale) for the ourspece of balancies PSE system load.
		Sales for Resale Transmission by Others	Secondary	System System			-579.047.00	279,149.00	1,001.86	139,833.73	0.00	Connotine numbers to name SEC inch. remortant This is wholesale gover rules. Sales to exther cretices (Sales for Assaule) for the purpose of balancing PSE system load. Our power over over the lens day party value beforeast of
3406 3375 3315	2016 EDFTradine NALLC 2016 EDFTradine NALLC 2016 EDFTradine NALLC	Transmission by Others Purchases - Secondary	Secondary Secondary	System System System	Yes Yes Yes	EDF Tradine NALLC EDF Tradine NALLC EDF Tradine NALLC	-191,676.00 483,150.00	-287,579.00	1,057.09	0.00	-151,995.2	Secondary purchases to serve PSE load, unspecified 35
3438 3349	2016 Encomen 2016 Encomen	EIM Sales EIM Purchases	Secondary Secondary	System System	Yes Yes	Encogen Encogen	-2,843.78 2,522.13	-321.65	1,057.09	0.00	-170.01	Treat these as secondary purchases even if it's a PIX resource. The way LMM works: Step 1) Actual meter read compared to base schedule (in the boar), Step 2) if meter > than base schedule, safe occurred. That these as secondary purchases even if it's a PIX resource. The way LMM works: Step 1) Actual meter read compared to base schedule (in the boar), Step 2) if meter > than base schedule, safe occurred. 1
3427 3316	2016 Eusene Water & Electric 2016 Eusene Water & Electric	Sales for Resale Purchases - Secondary Sales for Resale	Secondary	System System	Yes Yes	Eurene Water & Electric Eurene Water & Electric	-57,965.00 15,232.00	-42,733.00	1,057.09	0.00	-22,586.3	This is wholesale power sales. Sales to other certities (Sales for Assale) for the purpose of balancing PSE system load. Secondario neurbases to serve PSE load unsecribed. Secondario neurbases to serve PSE load unsecribed.
3438 3317 3439	2016 Exelon Generation Co LLC 2016 Exelon Generation Co LLC 2016 Secretain Co Generation	Purchases - Secondary	Secondary	System System System	Yes Yes	Easion Generation Co LLC Easion Generation Co LLC Ferndale Co-Generation	-80,680.00 160,970.00 -16,342.68	80,290.00	1,001.86	40,219.56	0.00	This is substituted power value. Sales to other entities (Sales for Resale) for the purpose of balancing PSZ system load. Secondan conclaims to serie PSZ load stratectified. This is with the purpose of the purpose of balancing PSZ system load. The purpose of the purpose of the purpose of balancing PSZ system load. Secondan conclaims to series PSZ load stratectified. The purpose of the purpose of the purpose of the purpose of balancing PSZ system load.
3439 3350 3351	2016 Ferndale Co-Generation 2016 Ferndale Co-Generation 2016 Freddie #1	EIM Sales EIM Purchases EIM Purchases	Secondary Secondary	System System System	Yes Yes	Ferndale Co-Generation Ferndale Co-Generation Fredde #1	-10,042-08 17,368-06 -2,196-02	1,025.38 -2,196.02	1,001.86 1,057.09	513.64 0.00	0.00	Trait these as secondary purchases even if it is \$76 mource. The way (1M works Spg 1), Lettur meter med companded to base chesks (pi the hour), Spp 2) if meter > than base schedule, wite occurred. Trait these as secondary purchases even if it is \$76 mource. The way (1M works Spg 1), Lettur meter med companded to base schedule (pi the hour), Spp 2) if meter > than base schedule, wite occurred. Trait these as secondary purchases even if it is \$76 mource. The way (1M works Spp 1), Lettur meter med companded to base schedule (pi the hour), Spp 2) if meter > than base schedule, wite occurred.
3440 3352	2016 Fredoria - Energy Imbalance Market 2016 Credoria - Energy Imbalance Market	EIM Sales EIM Sales	Secondary Secondary	System System	Yes Yes	Fredoria - Energy Imbalance Market Exertoria - Energy Imbalance Market	-4.186.37 5.396.16				,	These there are secondary quadrates where it is 1 are in contact, in the large interest, and a present of the large interest of the large interes
3441 2252	2016 Creditions 1 E 7 2016 Prediction 1 E 2	EIM Culan EIM Purchases	Secondary Secondary	System System	Yes Yes	Emoticismo 1 & 2 Fredrickson 1 & 2	-814.09 1,504.99	1.209.79	1.001.86	606.02	0.00	Treat these as secondary curchases even if it's a PEZ resource. The way Elik works: See 0 II Actual moter read compared to base schedule for the boar!. See 0 II if moter > than base schedule, sale occurred. Treat these as secondary auchbases even if it's a PEZ resource. The way Elik works: See 0 II Actual moter read compared to base schedule for the hour!. See 0 II if moter > than base schedule, sale occurred.
3442 3254	2016 Goldendale 2016 Goldendale	EIM Sales EIM Purchases	Secondary Secondary	System System	Yes Yes	Goldendale Goldendale	-12,077.08 37,286.47	690.90	1,001.86	346.09	0.00	Treat these as secondary purchases even if it's a PE resource. The way Elik works: Sep 1) Actual meter read compared to base schedule (in the hour). Sep 2) if meter > than base schedule, scie occurred. Treat these as secondary purchases even if it's a PEF resource. The way Elik works: Sep 3) Actual meter read compared to base schedule (in the hour). Sep 2) if meter > than base schedule, scie occurred.
3318	2016 Grant County PUD #2	Purchases - Secondary	Secondary	System	Yes	Grant County PUD #2	20.00	25,209.40 20.00	1,001.86 1,001.86	12,628.11 10.02	0.00	Secondary ourchases to serve PSC load unasocified This is habituated power unles. Sales to other crediting Sales for Planakel for the purpose of habitacing PSC system load.
3409 3319 3410	2016 GRIDFORCE ENERGY MANAGEMENT, LLC. 2016 GRIDFORCE ENERGY MANAGEMENT, LLC. 2016 Investor Description (2014)	Sales for Resale Purchases - Secondary	Secondary Secondary	System System	Yes Yes	GRIDFORCE ENERGY MANAGEMENT, LLC. GRIDFORCE ENERGY MANAGEMENT, LLC.	-73.00 5.00	-68.00	1,057.09	0.00	-35.94	Secondary purchases to serve PSE load. unusecified
3410 3376 3320	2016 Iberdrots Renewables (PPM Energy) 2016 Iberdrots Renewables (PPM Energy) 2016 Iberdrots Renewables (PPM Energy)	Sales for Resale Transmission by Others Purchases - Secondary	Secondary Secondary	System System System	Yes Yes Yes	Ibendrola Renewables (PPM Eneravi Ibendrola Renewables (PPM Eneravi Ibendrola Renewables (PPM Eneravi	-540,807.00 -76,984.00 724,215.00	106,424.00	1,001.86	53,310.83	0.00	This in-bubbles power rules. Sakes to other rettine (Dains for Areals) for the purpose of bubbles(PAE system load. Our power own other loans, and purposes bubbles(a)). Secondary auchines to some PAE load or successful
3377 3411 3321	2016 Idaho Power Company 2016 Idaho Power Company 2016 Idaho Power Company	Transmission by Others Sales for Resale Purchases - Secondary	Secondary Secondary Secondary	System System System	Yes Yes	Idaho Power Company Idaho Power Company Idaho Power Company	-302,793.00 -50,200.00 14,367.00					Our power over other fines, 3rd party takes (sholdeaths) This is wholically power takes. Sales to other entities (takes for Beaute) for the purpose of balancing PSE system load. Sacconders contains to sear PSE load successful
3355	2016 Lower Baker	EIM Purchases	Secondary	System	Yes	Lower Baker	752.99	-318,626.00 752.99	1,057.09 1,001.86	0.00 377.19	-178,979.0 0.00	Of Treat these as secondary purchases even if it's a PSC resource. The way EIM works: Sep 1) Actual meter read compared to base schedule (in the hour), Sep 2) if meter > than base schedule, sale occurred.
3443 3356	2016 ABELS for Ename Imbalance Market 2016 ABELS for Ename Imbalance Market	EIM Color EIM Doorbasse	Secondary Secondary	System System	Yes Yes	Milh.C for Enance imbalance Market Milh.C for Enance imbalance Market	-53.227.61 59.160.17	5.932.56	1.001.86	2.971.79	0.00	These these as secondary auchieurs even if it's a PEZ resource. The wav EM works Stro ID Actual motion read companied to bear achievable for the hourd, Stro ID if motion > than beaus achievable, usin occurred. These these as secondary auchieurs even if it's a PEZ resource. The wav EM works Stro ID Actual motion read companied to bear achievable for the hourd. Stro ID if motion > than bear schedule, usin occurred.
3444 3357	2016 Mint Farm 2016 Mint Farm	EIM Sales EIM Purchases	Secondary Secondary	System System	Yes Yes	Mint Farm Mint Farm	-4,247.84 5,698.87	1,351.03	1,001.86	676.77	0.00	Trast these as secondary purchases even if it's a PEZ resource. The way EMA works: Sep 3) Actual motier read compand to base schedule (in the hour), Sep 3) if motier > than base schedule, suite occurred. Trast these as secondary purchases even if it's a PEZ resource. The way EMA works: Sep 1) Actual motier read compand to base schedule (in the hour), Sep 3) if motier > than base schedule, suite occurred.
3378 3412 3322	2016 Morean Stanley CG 2016 Morean Stanley CG 2016 Morean Stanley CG	Transmission by Others Sales for Resale Purchases - Secondary	Secondary Secondary Secondary	System System System	Yes Yes Yes	Montain Stanley CG Montain Stanley CG Montain Stanley CG	-1,697,398.00 -419,966.00 1,046,909.00					Our power over other lines, 3xd party takes (wholesale) This is wholesale power tales. Sales to other entities (false for Resale) for the purpose of balancing PSG system load. Spronder processales to see and ESC sequence false.
3413	2016 Natur Ener U.SA. 2016 Nevada Power Company	Sales for Resale	Secondary Secondary	System	Yes	Natur Ener USA	-22.00 -116.00	-1,070,455.00 -22.00 -116.00	1,057.09 1,057.09	0.00	-565,783.5 -11.63 -61.31	This is wholesale power takes. Sales to other entities (Sales for Retails) for the purpose of balancing PSE system load.
	2016 NextEra Energy Power Marketing	Sales for Resale Sales for Resale	Secondary	System System System	Yes Yes Yes	Nevada Power Company NextEra Energy Power Marketine	-2,575.00	-116.00	1,057.09	0.00	-61.31	This whe belong power sizes. Seeks to the recent files (plant for the assay) for the purpose of harboring/EG appens load. This is whelested power packs below a statel eventiles (files from Packs) for the purpose of harboring/EG appens load. Our power over either files, 16 planty sizes (plantscap) Earthur packs and the p
3415 3279 3323 3416	2016 NextEra Energy Power Marketing 2016 NextEra Energy Power Marketing 2016 NextEra Energy Gro & Strauer	Transmission by Others Purchases - Secondary Sales for Berale		System System System		NextEra Energy Power Marketine NextEra Energy Power Marketine Nebba Americas Gos & Dysser	-205.00 41,481.00 -400.00	38,701.00	1,001.86	19,386.44	0.00	Our power over other lines, 3-dip any tables handsteals) Seatonation accustance to some rePSE last accustance (filed This is wholesale power tables. Sales to other centiles (Sales for Beaule) for the purpose of balancing PSE system load.
3416 3324 3325	2016 Noble Americas Gas & Power 2016 Noble Americas Gas & Power 2016 NorthPoint Energy Solutions, Inc.	Sales for Resale Purchases - Secondary Purchases - Secondary	Secondary Secondary Secondary	System System System	Yes Yes	Noble Americas Gas & Power Noble Americas Gas & Power NorthPoint Enemy Solutions. Inc.	-400.00 1,600.00 336.00	1,200.00 336.00	1,001.86 1,001.86	601.11 168.31	0.00	This is substituted power sales, Sales to other entities (plain for Beauty) for the purpose of balancing PSE system load. Secondates excellent to server PSE load suspecified Secondates excellent to server PSE load, suspecified
3417 3417 3326 3380	2016 Northwestern France 2016 Northwestern France	Purchases - Secondary Sales for Basela Durchases - Secondary	Secondary Secondary Secondary Secondary	System System System System	Yes Yes Yes	Northwestern Enemy Northwestern Enemy	-47.355.00	am.ud	a,oura 8th	.ee.sl	0.00	This is wholesale owner sales. Sales to other entities (Sales for Resale) for the oursons of balancies PSS switters load.
	2016 Northwestern France 2016 Okanosan PUD	Transmission burlishess Sales for Resple				Ninethaustern Enemu Okanosan PUD	12.081.00 89.897.00 -8,030.00	54,623.00	1,001.86	27,362.23	0.00	This is wholesale power sales. Sales to other entities (Sales for Resale) for the purpose of balancing PSI system load.
3418 3327 3367 3365	2016 Okanosan PUD 2016 Okanosan PUD 2016 Pacific Gas & Elec - Eschanse	Sales for Resale Purchases - Secondary Interchange - Out	Secondary Secondary Secondary	System System System	Yes Yes	Okanozan PUD Okanozan PUD Pacific Gas & Elec - Euchanse	-8,030.00 14,335.00 -413,000.00 413,000.00	6,305.00	1,001.86	3,158.36	0.00	Secondary purchases to serve PSE load unspecified
	2016 Pacific Gas & Elec - Exchange 2016 Pacific Gas & Elec - Exchange 2016 Pacificorp	Interchange - Out Interchange - In Transmission by Others	Secondary Secondary Secondary	System System System	Yes Yes	Pacific Gas & Elec - Eschange Pacific Gas & Elec - Eschange Pacificora	-254.478.00	0.00	1,001.86	0.00	0.00	Internations concerned to contractive concerned as more PMT last at susceptible internationative in contractive contractive training PMT and contractive for grown one contribute from, 24 degrat (spin functionate) This has belowing any exercise facilities below the Contractive Contr
3381 3419 3328	2016 Pacificoro 2016 Pacificoro 2016 Pacificoro	Transmission by Others Sales for Resale Purchases - Secondary	Secondary Secondary	System System System	Yes Yes	Pacificoro Pacificoro Pacificoro	-213,291.00 73,911.00	-393,958.00	1,057.09	0.00	-208,224.5	Secondary ourchases to serve PSE load, unspecified
3420 3368 3382 3329	2016 Portland General Electric 2016 Portland General Electric 2016 Portland General Electric 2016 Portland General Electric	Sales for Resale Interchanse - Out Transmission by Others Purchases - Secondary	Secondary Secondary Secondary	System System System System	Yes Yes Yes	Portland General Electric Portland General Electric Portland General Electric Portland General Electric	-202,064.00 -100.00 290,000.00 306,093.00					This is wholesale gover rails: Sales to other cettics (Sales for Kraule) for the purpose of balancing PSS system load. Intervene-ou, secondarie suchases to service PSS load unspecified Our power over other lines, 2 all party sales (subsidiaries)
3329 3383 3421 3330	2016 Powerex Cora. 2016 Powerex Cora. 2016 Powerex Cora.	Purchases - Secondary Transmission by Others Sales for Resale	Secondary	System System System System	Yes Yes Yes	Portland General Electric Powerex Coro. Powerex Coro	-1,701,985.00	295,929.00	1,001.86	148,239.32	0.00	
	ANAM POWERS COS.	Purchases - Secondary	Secondary Secondary			Powerex Coro.	-295,006.00 118,836.00	-1.978.155.00	1.057.09	0.00	-1.045.543	This is wholeholds power rules. Sales to other critizes (Sales for Alexale) for the purpose of bashocing PSE system load. Secondain southwase to arrang PSE load, stranged field This is wholeholds power rules. Sales to self-er critical Sales for Alexalel for the oursess of bashocing PSE violen load.
3422 3331 3423	2016 Subdir Cansira of Followeds 2016 Subdir Cansira of Followeds 2016 Stainbow Energy Marketing	Cules for Barelo Distribuses - Commodern Sales for Resale	Secondary Secondary Secondary	System System	Yes Yes	Dublic Sensine of Colomerin Dublic Sensine of Colomerin Rainbow Energy Marketing	-186.595.00 158.000.00 -21,444.00	-28.595.00	1.057.09	0.00	-15.113.7	Secondary numbers to serve DSC load second DSC load second East
3423 2384 3332	2016 Rainbow Energy Marketine 2016 Rainbow Energy Marketine 2016 Rainbow Energy Marketine	Sales for Resale Transmission by Others Purchases - Secondary	Secondary Secondary	System System System	Yes Yes Yes	Rainbow Energy Marketine Rainbow Energy Marketine Rainbow Energy Marketine	956.00	-21,688.00	1,057.09	0.00	-11,463.0	Secondary numbered to serve PSE load universified
3424 3333	2016 Sacramento Municipal 2016 Sacramento Municipal	Sales for Resale Purchases - Secondary	Secondary Secondary	System System	Yes Yes	Sacramento Municipal Sacramento Municipal	-10.00 153.00	143.00	1,001.86	71.63	0.00	This is wholesale power sales. Sales to other cetities (Sales for Resale) for the purpose of balancing PSE system load. Secondary conhases to serve PSE load, unconcilled.
3425 3385 3334	2016 Seattle City Light Marketing 2016 Seattle City Light Marketing 2016 Seattle City Light Marketing	Sales for Resale Transmission by Others Purchases - Secondary	Secondary Secondary Secondary	System System System	Yes Yes Yes	Seattle City Light Marketine Seattle City Light Marketine Seattle City Light Marketine	-30,489.00 -1,900.00 92,909.00					This is advised power sales. Sales to other entities (Sales) for the purpose of balancing 956 system load. Our power over other lens, Jad party sales (wholesed for the Salesed for the purpose of balancing 956 system load.) Secondary our contents to serve 956 load of suscending
3426 3386 3335	2016 Shell Energy (Coral Part) 2016 Shell Energy (Coral Part) 2016 Shell Energy (Coral Part)	Sales for Resale Transmission by Others Purchases - Secondary	Secondary Secondary Secondary	System System System	Yes Yes	Shell Energy (Coral Pwri Shell Energy (Coral Pwri Shell Energy (Coral Pwri	-356,872.00 -10,890.00 450,861.00	60,520.00	1,001.86	30,316.20	0.00	This is wholesale gover sules, Sales to other entities (Sales in Greate) for the purpose of balancing PMI system load. Our gover one or other line, July party using handwards) Generates one content one. PMI and surrounded the purpose of the second one contents on the party PMI and surrounded for the purpose of the purpo
3135 3427 3136	2016 Shell Energy (Coral Part) 2016 Snehemish County PUD #1 2016 Snehemish County PUD #1	Purchases - Secondary Sales for Resale Purchases - Secondary	Secondary Secondary Secondary	System System System	Yes Yes	Shell Energy (Coral Pwr) Snohomish County PUD #1 Snohomish County PUD #1	450,861.00 -8,210.00 27,590.00	83,099.00	1,001.86	41,626.67	0.00	This is wholesale power sales. Sales to other extities (Sales for Resale) for the purpose of balancing PSS system load.
3336	2016 Septemble County PUD #1 2016 Septemble-Energy Imbalance Market	Purchases - Secondary EIM Purchases	Secondary Secondary	System	Yes	Snobomish County PUD #1 Snocualmie-Energy Imbalance Market	27,590.00 3,163.40	19,380.00 3,163.40	1,001.86 1,001.86	9,708.00 1,584.64	0.00	Secondary aucthors to serve PSE load, unspecified Treat these as secondary purchases even PSE in a PSE resource. The way ESM works: Step 13/ Actual meter read compared to base schedule (in the hour), Step 23 (if meter - than base schedule, sale occurred.

3337	2016 Southern Cal - Edison	Purchases - Secondary	Secondary	System	Yes	Southern Cal - Edison	100.00	100.00	1,001.86	50.09	0.00	Secondary purchases to serve PSE load unspecified
3445	2016 Sumas	EIM Sales	Secondary	System	Yes	Sumas	-4,270.81					Treat these as secondary purchases even if it's a PSE resource. The way EIM works: Step 1) Actual meter read compared to base schedule (in the hour), Step 2) if meter > than base schedule, sale occurred.
3359	2016 Sumas	EIM Purchases	Secondary	System	Yes	Sumas	8,889.96	4,619,15	1.001.86	2.313.96	0.00	Treat these as secondary purchases even if it's a PSE resource. The way EIM works: Step 1) Actual meter read compared to base schedule (in the hour), Step 2) if meter > than base schedule, sale occurred.
2207	2016 Tacoma Power	Transmission by Others	Secondary	System	Yes	Taroma Rouar	-26.625.00	4,619.15	1,001.86	2,414.95	0.00	Our govern over other lines, 2rd party sales heholesale)
3428	2016 Tacoma Power	Sales for Resale	Secondary	System	Yes	Tacoma Power Tacoma Power	-25,904.00					This is whelesale cover sizes, as a party same parameters. The is whelesale cover sizes sizes, Sales to other entities (Sales for Resale) for the outpose of balancine PSS switten load.
2228	2016 Tacoma Power	Durchaus - Sacrovian	Secondary	System	Yes	Tacoma Power Tacoma Rower	78.082.00					This is with a power takens, a latest extracted part of the purpose of unusuring year option in the purpose of unusuring years of the purpose of the pu
****	2019 ISCORS YOMER	PERCHASES - SECONDARY	securacy	apatem	165	Tacoma Power	74,082.00	25.553.00	1.001.86	12,800,23	0.00	SECONDAY DUTCHASES TO SERVE PLA 1082, UNIQUEDING
3429	2016 Talen Energy (PPL Energy Plus)	Sales for Resale	Secondary	System	Yes	Talen Energy (PPL Energy Plus)	-67.154.00					This is who letale power sales. Sales to other entities (Sales for Resale) for the purpose of balancine PSE system load.
2229	2016 Talen Energy (PPL Energy Plus)	Purchases - Secondary	Secondary	System	Yes	Talen Energy (ES) Energy Stud	232.943.00					Secondary purchases to serve PSS load, unspecified
								165,789.00	1,001.86	83,048.46	0.00	
3430	2016 Tenaska Power Services Co	Sales for Resale	Secondary	System	Yes	Tenaska Power Services Co	-17.00					This is who lessile power sales. Sales to other entities (Sales for Resale) for the purpose of balancing PSE system load.
3340	2016 Tenaska Power Services Co.	Purchases - Secondary	Secondary	System	Yes	Tenaska Power Services Co.	975.00					Secondary our hases to serve PSE load, unspecified
								958.00	1,001.86	479.89	0.00	
3388	2016 The Energy Authority	Transmission by Others	Secondary	System	Yes	The Energy Authority	-257,647.00					Our power over other lines, 3rd party sales (wholesale)
3431	2016 The Energy Authority	Sales for Resale	Secondary	System	Yes	The Energy Authority	-65.801.00					This is wholesale power sales. Sales to other entities (Sales for Resale) for the purpose of balancing PSE system load.
3341	2016 The Energy Authority	Durchause - Carnovtero	Secondary	System	Yes	The Energy Authority	979.776.00					Commission manchiness for some DCC loads amoner/liked
								676.329.00	1.001.86	339.792.08	0.00	
3432	2016 Transalts Cantralia Generation II C	Color For Gerale	Secondary	System	Yes	Transalts Centralis Generation IIC	-2.206.00	-2.206.00	1.057.09	0.00	-1.165.97	This is who lessle power sales. Sales to other entities (Sales for Resale) for the purpose of balancine PSE switern load.
3433	2016 TransAlta Energy Marketing	Sales for Resale	Secondary	System	Yes	TransAlta Energy Marketing	-431,647.00					This is who lessle power sales. Sales to other entities (Sales for Resale) for the purpose of balancing PSE system load.
3329	2016 TransAlta Energy Marketing	Transmission by Others	Secondary	System	Yes	TransAlta Energy Marketing	-365,094.00					Our power over other lines, 3rd party sales (wholesale)
3369	2016 TransAlta Energy Marketing	Interchange - Out	Secondary	System	Yes	TransAlta Energy Marketing	-200.00					Interchange-out, secondardy purchases to service PSE load, unspecified
3342	2016 TransAlta Energy Marketing	Purchases - Secondary	Secondary	System	Yes	TransAlta Energy Marketing	757,605.00					Secondary purchases to serve PSE load unspecified
2424								-29,226.00	1,057.09	0.00	-20,790.84	
	2016 TransCanada Energy Sales Ltd	Sales for Resale	Secondary	System	Yes	TransCanada Energy Sales Ltd	-9,917.00					This is wholesale power sales. Sales to other entities (Sales for Resale) for the purpose of balancing PSE system load.
3343	2016 TransCanada Enersy Sales Ltd	Purchases - Secondary	Secondary	System	Yes	TransCanada Enensy Sales Ltd	2,609.00	-7.308.00	1.057.09	0.00	-3.862.61	Secondary purchases to serve PSE load: unspecified
3435	2016 Turlock Intention District	Salar for Barala	Secondary	System	Yes	Turlock Intention District	-155.00	-7,808.00	1,057.09	0.00	-4,862.61	This is wholesale power sales. Sales to other entities (Sales for Resale) for the oursose of balancing PSS system load.
3344			Secondary	System	Yes		18,671.00					
2244	2016 Turlock Irrigation District	Purchases - Secondary	secondary	system	Tes	Turlock Invisation District	18,671.00	18516.00	1.001.86	9.275.19	0.00	Secondary ourchases to serve PSE load unspecified
3446	2016 Upper Baker	EIM Sales	Secondary	System	Yes	Upper Baker	-13.213.31	28,828.00	1,002.00	9,470.49	0.00	Treat these as secondary purchases even if it's a PSE resource. The way EMM works: See 31 Actual meter read compared to base schedule in the boart. See 21 if meter > than base schedule, sale occurred.
3360	2016 Upper Baker	EIM Purchases	Secondary	System	Yes	Upper Baker	18.962.72					That there as secondary purchases even if it's a PSE resource. The vay EliM works Sop a) characteristic companied to base schedule (in the boar). See 2 lif meter > that base schedule, six occurred.
3300	2010 CODELMENT.	LIM PURCHAINS	accounty	Jyanes	100	Upper suser	28,992.73	5.749.43	1.001.86	2,880.05	0.00	Treat trees as sectionary partitions even in a six ran resource. The way time works and play retain resource resource for the resource (in the resource for the
3436	2016 Vital Inc.	Sales for Resale	Secondary	System	Yes	Vital inc.	-2.338.954.00	5,1 - 5 - 5	.,	-,		This is wholesale power sales. Sales to other entities (Sales for Resale) for the purpose of balancing PSS system load.
3345	2016 Vital Inc	Purchases - Secondary	Secondary	System	Yes	Vitaline	2.531.701.00					Secondary purchases to serve PSE load unspecified
	The second second	Perchange - ancestable		3730000		Vasititis		192.747.00	1.001.86	96.552.50	0.00	JACOBAN SALIMAN OF MARKET AND
3447	2016 Whitehorn 2&3	EIM Sales	Secondary	System	Yes	Whitehorn 28.2	-1.041.56					Treat these as secondary purchases even if it's a PSE resource. The way EIM works: Step 31 Actual meter read compared to base schedule (in the hour). Step 21 if meter > than base schedule, sale occurred.
3361	2016 Whitehorn 2&3	EIM Purchases	Secondary	System	Yes	Whitehorn 2&3	1384.03					Treat these as secondary purchases even if it's a PSE resource. The way EIM works: Step 31 Actual meter read compared to base schedule (in the hour). Step 21 if meter > than base schedule, sale occurred.
								342.47	1.001.86	171.55	0.00	
3362	2016 Wild Horse (W182)	EIM Burchauer	Secondary	System	Yes	Wild Home (W192)	-15,814,60	-15.814.60	1.057.09	0.00	-8.258.72	Treat these as secondary purchases even if it's a PSE resource. The way EIM works: Step II Actual meter read compared to base schedule (in the hour). Step 21 if meter > than base schedule, sale occurred.
							4.166.129.75			4254.158.90	-2.286.705.0	Sum of Linuxecified short ton emissions only
						Unspecified Emissions - Netting Method Deliveries	4,254,158.91		Short Tons			
						Unspecified Emissions - Netting Methods Sales	-2,296,705.05		Short Tons			

Met Difference (Metting - Sural)	138,478,42
Met Difference (Metting - Sural)	1,957,96
Met Difference (Metting - Sural)	1,957,96
Metting - Sural - Report all sales and purchases separately for each trading entity Net sales: company's fleet average emissions rate Net purchases: Dept. of Commerce's fuel mix emissions rate	

Known sources, include firm contracts Aggregate net system purchases and sales Counterparty by counterparty net system

Comparison of Emissions Using WUTC "Net Out" Methodology Recommendation

	2008	2012	2016
Rationale for selecting	High emissions year in the NWPP	Low emissions year in the NWPP	Current reporting year
CO2 Emission Rates			
Commerce Rate, lb/MWh	1,024	903	1,002
PSE Owned + Firm Rate, lb/MWh	814	895	1,057
Non-Firm Purchases & Sales			
Unspecified Sales (MWh)	-6,340,438	-7,143,982	-20,152,154
Unspecified Purchases (MWh)	11,781,860	14,870,988	24,318,283
Net Delivered (MWh)	5,441,422	7,727,006	4,166,129
CO2 Emissions - Net Purchase & Sales by Counterparty, then apply rates			
Short Tons	2,808,760	3,492,881	1,967,454
CO2 Emissions - Sum of all Purchase & Sales x Commerce Rate			
Short Tons	2,787,287	3,489,259	2,086,933
Difference (Short Tons)	21,473	3,621	-119,479
3 , 1, 11, 11, 11, 11, 11, 11, 11, 11, 11	0.8%	0.1%	-5.7%

PSE & Avista agreed to the following test years: 2008 to represent a high emissions year, 2012 to represent a low emissions year, and the current RY (2016)

Same as above in Metric Tons			
Commerce Rate, lb/MWh	1,024	903	1,002
PSE Owned + Firm Rate, lb/MWh	814	895	1,057