

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

UM 1734

In the Matter of)) PACIFICORP, dba PACIFIC POWER’s)) Application to Reduce the Qualifying Facility) Contract Term and Lower the Qualifying) Facility Standard Contract Eligibility Cap.)) _____)	RENEWABLE ENERGY COALITION CROSS EXAM EXHIBITS
---	---

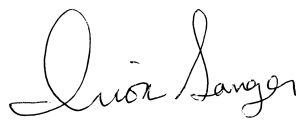
The Renewable Energy Coalition (“REC”) submits the following cross examination exhibits for PacifiCorp witness Bruce Griswold. REC may identify additional exhibits prior to or at the evidentiary hearing.

UM 1734 – Bruce Griswold	
Number	Title
REC/400	PacifiCorp Response to Renewable Energy Coalition Data Request 2.4
REC/401	PacifiCorp Response to Renewable Energy Coalition Data Request 3.2
REC/402	PacifiCorp Response to Renewable Energy Coalition Data Request 4.1
REC/403	PacifiCorp Response to Renewable Energy Coalition Data Request 4.4
REC/404	PacifiCorp Response to Renewable Energy Coalition Data Request 4.5
REC/405	PacifiCorp Response to Renewable Energy Coalition Data Request 4.6
REC/406	Non-confidential PacifiCorp Response to Renewable Energy Coalition Data Request 4.7

REC/407	One-Page Summary of Jonathan M. Weisgall's Statement Berkshire Hathaway Energy June 4, 2015
---------	---

Dated this 14th day of January, 2016.

Respectfully submitted,



Irion Sanger
Sanger Law, PC
1117 SE 53rd Avenue
Portland, OR 97215
Telephone: 503-756-7533
Fax: 503-334-2235
irion@sanger-law.com

Of Attorneys for the Renewable Energy Coalition

UM 1734 / PacifiCorp
December 1, 2015
REC 2nd Set Data Request 2.4

REC Data Request 2.4

Please identify any QF contracts the company is aware of which have been able to obtain financing for construction under three year contract terms. If they are not PacifiCorp QFs, please provide as much additional information that the company is aware that is responsive to REC data requests 1.2 and 2.1.

Response to REC Data Request 2.4

PacifiCorp does not track qualifying facility (QF) project financing. Please refer to the Company's response to REC Data Request 2.1; specifically Attachment REC 2.1, which provides the original term of PacifiCorp's QF power purchase agreements (PPA).

UM 1734 / PacifiCorp
December 16, 2015
REC 3rd Set Data Request 3.2

REC Data Request 3.2

For each state regulatory jurisdiction the company operates in, please identify the maximum contract term allowed by the state regulatory agency for each year since PURPA was passed.

Response to REC Data Request 3.2

The Company objects to this request as overly broad, unduly burdensome, and not reasonably calculated to lead to the discovery of relevant evidence. The Company also objects to this request because it asks for legal conclusions and requests the Company's legal opinions.

REC Data Request 4.1

Please provide an updated response to REC data requests 1.2, and 2.1 including all QF projects that the company has entered into since the passage of PURPA.

Response to REC Data Request 4.1

The Company objects to this request as overly broad, unduly burdensome, and not reasonably calculated to lead to the discovery of relevant evidence. Without waiving these objections, the Company responds as follows:

Note: as the original attachment provided in REC Data Request 1.2 has subsequently been updated to respond to REC Data Request 2.1 and REC Data Request 3.1, the Company has used the attachment to REC Data Request 3.1 as the starting point of this data request response.

Please refer to Attachment REC 4.1.

REC Data Request 1.2						REC Data Request 2.1 (REC Data Request 3.1 (subpart (f)))								
(a)	(b)	(c)	(d)	(e)	(f)	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
Plant Name	Power Purchase Agreement (PPA) Execution Date	Resource Type	Nameplate Capacity (megawatts (MW))	Commercial Operation Date (COD)	Actual COD	Length of Original Contract (Years)	Renewal Length (Years)	Contract Type	State	On or Off	Maximum Contract Term (Years)	Standard Contract Threshold (MW unless noted)	Operational (N=No, Y=Yes)	Status (S=Shutdown, AU= Selling to Another Utility)
AC Whitney	October 31, 1980	Wind	0.02	October 31, 1980	October 31, 1980	35		Standard	WA	On	unknown	2	N	S
Adams Solar Center, LLC	August 7, 2014	Solar	10.0	April 30, 2017		20		Standard	OR	On	20	10	N	
AG Hydro	March 31, 2012	Hydro	10.00	November 1, 2012		20		Standard	OR	On	20	10	N	
Alta Energy (now Cottonwood Hydro)	October 23, 2003	Hydro	1.10	January 1, 2005	January 1, 2005	1		Standard	UT	On	20	3	N	
Alta Energy	Renewal	Hydro	1.10	Existing	Existing		0.5	Standard	UT	On	20	3		
Alta Energy	Renewal	Hydro	1.10	Existing	Existing		0.5	Standard	UT	On	20	3		
Alta Energy	Renewal	Hydro	1.10	Existing	Existing		0.5	Standard	UT	On	20	3		
Alturas Cemetary District	Unknown	Wind	< 0.1	September 8, 1982	September 8, 1982			Standard	CA	On	unknown	100 kW	unknown	
Ballard Hog Farms Inc	September 22, 2003	Biogas	0.05	October 6, 2003	October 6, 2003	5		Standard	UT	On	20	3	N	
Ballard Hog Farms Inc	Renewal	Biogas	0.05	Existing	Existing		1	Standard	UT	On	20	3		
Ballard Hog Farms Inc	Renewal	Biogas	0.05	Existing	Existing		1	Standard	UT	On	20	3		
Ballard Hog Farms Inc	Renewal	Biogas	0.05	Existing	Existing		10	Standard	UT	On	20	3		
Baughman & Sons, Inc	June 12, 1985	Wind	< 0.1	June 12, 1985	June 12, 1985	20		Standard	CA	On	unknown	100 kW	unknown	
Baughman & Sons, Inc	Renewal	Wind	< 0.1	Existing	Existing			Standard	CA	On	unknown	100 kW		
Baughman & Sons, Inc	Renewal	Wind	< 0.1	Existing	Existing			Standard	CA	On	unknown	100 kW		
Bear Creek Solar Center, LLC	August 7, 2015	Solar	10.0	April 30, 2017		20		Standard	OR	On	20	10	N	
Bell Mountain Hydro LLC (Ted Sorenson)	February 4, 2010	Hydro	0.28	February 4, 2010	February 4, 2010	20		Standard	ID	On	20	10 aMW	N	
Bell Mountain Power (Jake Amy)	January 3, 1985	Hydro	0.45	January 3, 1985	January 3, 1985	40		Standard	ID	On	unknown	unknown	N	
Beryl Solar	June 4, 2013	Solar	3.0	July 31, 2015	August 24, 2015	20		Standard	UT	On	20	3	N	
Big Top LLC (QF)	December 19, 2008	Wind	1.65	March 31, 2009	August 1, 2009	20		Standard	OR	On	20	10	N	
Bill Smith	March 29, 1990	Hydro	< 0.1	March 29, 1990	March 29, 1990			Standard	OR	On	35	0.1	unknown	
Bill Smith	Renewal	Hydro	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Bill T Womack	July 9, 1984	Wind	< 0.1	July 9, 1984	July 9, 1984			Standard	OR	On	35	0.1	unknown	
Biomass One, L.P.	April 30, 1987	Biomass	25.00	May 25, 1987	May 25, 1987	20		Non-standard	OR	On	35	0.1	N	
Biomass One, L.P.	Renewal	Biomass	32.25	Existing	Existing		15	Non-standard	OR	On	20	10		
Birch Creek Hydro	August 21, 1984	Hydro	2.65	August 21, 1994	August 21, 1994	40		Standard	ID	On	unknown	unknown	N	
Blue Mountain Wind	July 3, 2013	Wind	80.0	May 1, 2015	Terminated	20		Non-standard	UT	On	20	3	N	
Blue Mountain Wind I		Wind	79.50		Terminated	20		Non-standard	UT	On	20	3	N	
Bly Solar Center, LLC	July 24, 2014	Solar	8.5	April 30, 2017		20		Standard	OR	On	20	10	N	
Bogus Creek	March 11, 1983	Hydro	0.16	March 11, 1983	March 11, 1983	40		Standard	CA	On	unknown	100 kW	N	
Bogus Creek	Amended	Hydro	0.16	Existing	Existing			Standard	CA	On	unknown	100 kW	Y	
Boston Power	June 30, 1986	Hydro	0.10	June 30, 1986	June 30, 1986	35		Standard	ID	On	unknown	unknown	N	
Boston Power	Renewal	Hydro	0.10	Existing	Terminated		5	Standard	ID	On	unknown	unknown		S
Bruce Adams	Unknown	Hydro	< 0.1	Existing	Existing			Standard	OR	On	35	0.1	unknown	
Bruce Adams	Renewal	Hydro	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Bruce Adams	Renewal	Hydro	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Buckhorn	June 4, 2013	Solar	3.0	July 31, 2015	December 23, 2015	20		Standard	UT	On	20	3	N	
Buffalo	May 17, 1993	Hydro	0.25	May 17, 1993	Terminated	20		Standard	ID	Off	5	unknown	N	AU
Bureau of Land Management - Rawlins Office	August 13, 2012	Wind	0.10	August 13, 2012	August 13, 2012	10		Standard	WY	On	20	1	N	
Butter Creek Power LLC	December 19, 2008	Wind	4.95	March 31, 2009	August 1, 2009	20		Standard	OR	On	20	10	N	
BYU Idaho	July 2, 2015	Natural Gas	6.50	August 1, 2015	August 23, 2015	2		Standard	ID	On	not defined	10 aMW	N	
C Drop	October 18, 2011	Hydro	1.10	March 15, 2012	March 15, 2012	20		Standard	OR	On	20	10	N	
Calvin Fox	May 31, 1986	Wind	0.02	May 31, 1986	May 31, 1986			Standard	OR	On	35	0.1	unknown	
Cargill, Q3 (Kettle Butte Dairy)	February 8, 2011	Biogas	1.70	June 14, 2011	June 14, 2011	10		Standard	ID	On	20	10 aMW	N	
Carl F Brown	April 28, 1981	Wind	< 0.1	April 28, 1981	April 28, 1981			Standard	OR	On	35	0.1	unknown	
CBG Portland	February 23, 2012	Biogas	3.00	February 23, 2012		20		Standard	OR	On	20	10	N	
CDM Hydro	December 4, 1984	Hydro	6.00	December 4, 1984	December 4, 1984	40		Standard	ID	On	unknown	unknown	N	
Cedar Valley	June 4, 2013	Solar	3.0	July 31, 2015	December 7, 2015	20		Standard	UT	On	20	3	N	
Central Oregon Irrigation District	April 12, 1983	Hydro	6.00	September 1, 1989	September 1, 1989	30		Standard	OR	On	35	0.1	N	
Central Oregon Irrigation District - Juniper Ridge	August 17, 2009	Hydro	5.00	August 17, 2009	August 17, 2009	20		Standard	OR	On	20	10	N	
Chevron Wyoming Wind QF	June 18, 2009	Wind	16.50	January 1, 2010	January 1, 2010	10		Non-standard	WY	On	20	1	N	
Chevron Wyoming Wind QF	Renewal	Wind	16.50	Existing	Existing		1	Non-standard	WY	On	20	1		
Chiloquin Solar	October 12, 2015	Solar	9.9	December 16, 2016		20		Standard	OR	On	20	10	N	
Chopin Wind, LLC	May 4, 2014	Wind	10.0	June 30, 2016		20		Standard	OR	On	20	10	N	
Chris Difani	April 8, 1985	Hydro	< 0.1	April 8, 1985	April 8, 1985			Standard	OR	On	35	0.1	unknown	
City of Albany, Dept of Public Works	April 4, 2008	Hydro	0.50	April 7, 2008	April 7, 2008	15		Standard	OR	On	20	10	N	
City of Buffalo	October 26, 1995	Hydro	0.20	May 1, 1998	May 1, 1998	20		Standard	WY	On	unknown	1	N	
City of Buffalo	Renewal	Hydro	0.20	Existing	Existing		1	Standard	WY	On	20	1	Y	
City of Portland, Portland Hydro Bureau	April 4, 2008	Hydro	0.03	December 1, 2011	December 1, 2011	10		Standard	OR	On	20	10	N	
City of Walla Walla	July 11, 1984	Hydro	2.00	October 28, 1987	October 28, 1987	35		Standard	WA	On	unknown	2	N	AU
Commercial Energy Management	November 21, 1991	Hydro	0.90	January 1, 1992	January 1, 1992	30		Standard	ID	On	5	unknown	N	
Cottonwood Hydro Lower	August 19, 2008	Hydro	0.85	August 25, 2008	August 25, 2008	5		Standard	UT	On	20	3	Y	
Cottonwood Hydro Lower	Renewal	Hydro	0.85	Existing	Existing		1	Standard	UT	On	20	3		
Cottonwood Hydro Lower	Renewal	Hydro	0.85	Existing	Existing		1	Standard	UT	On	20	3		
Cottonwood Hydro Upper	August 28, 2008	Hydro	0.26	December 14, 2011	December 14, 2011	5		Standard	UT	On	20	3	N	
Curtiss Livestock (Cameron Curtis)	January 1, 1984	Hydro	0.08	January 1, 1984	January 1, 1984	30		Standard	OR	On	20	10	N	

Plant Name	Power Purchase Agreement (PPA) Execution Date	Resource Type	Nameplate Capacity (megawatts (MW))	Commercial Operation Date (COD)	Actual COD	Length of Original Contract (Years)	Renewal Length (Years)	Contract Type	State	On or Off	Maximum Contract Term (Years)	Standard Contract Threshold (MW unless noted)	Operational (N=No, Y=Yes)	Status (S=Shutdown, AU= Selling to Another Utility)
Curtiss Livestock (Cameron Curtis)	Renewal	Hydro	0.08	Existing	Existing		1	Standard	OR	On	20	10		
Curtiss Livestock (Cameron Curtis)	Renewal	Hydro	0.08	Existing	Existing		1	Standard	OR	On	20	10		
Curtiss Livestock (Cameron Curtis)	Renewal	Hydro	0.08	Existing	Existing		1	Standard	OR	On	20	10		
Curtiss Livestock (Cameron Curtis)	Renewal	Hydro	0.08	Existing	Existing		1	Standard	OR	On	20	10		
Curtiss Livestock (Cameron Curtis)	Renewal	Hydro	0.08	Existing	Existing		1	Standard	OR	On	20	10		
Curtiss Livestock (Cameron Curtis)	Renewal	Hydro	0.08	Existing	Existing		1	Standard	OR	On	20	10		
Curtiss Livestock (Cameron Curtis)	Renewal	Hydro	0.08	Existing	Existing		1	Standard	OR	On	20	10		
Curtiss Livestock (Cameron Curtis)	Renewal	Hydro	0.08	Existing	Existing		4	Standard	OR	On	20	10		
Cypress Creek - Merrill Solar	June 29, 2015	Solar	10.0	November 18, 2016		20		Standard	OR	On	20	10	N	
Deruyter Dairy	October 31, 2006	Biogas	1.20	October 31, 2006	October 31, 2006	5		Standard	WA	On	5	2	N	
Deruyter Dairy	Renewal	Biogas	1.20	Existing	Existing		1	Standard	WA	On	5	2	Y	
Deruyter Dairy	Renewal	Biogas	1.20	Existing	Existing		1	Standard	WA	On	5	2	Y	
Deruyter Dairy	Renewal	Biogas	1.20	Existing	Existing		1	Standard	WA	On	5	2	Y	
Deruyter Dairy	Renewal	Biogas	1.20	Existing	Existing		1	Standard	WA	On	5	2	Y	
Deruyter Dairy	Renewal	Biogas	1.20	Existing	Existing		0.5	Standard	WA	On	5	2	Y	
Deschutes Valley Hydro District	June 29, 1982	Hydro	4.30	November 15, 1982	November 15, 1982	40		Standard	OR	On	35	0.1	N	
Desert Power	September 24, 2004	Natural Gas	95.00	January 1, 2006	Terminated	20		Non-standard	UT	On	20	3	N	
Diamond Fruit Growers, Inc	January 1, 1984	Hydro	< 0.1	January 1, 1984	January 1, 1984			Standard	OR	On	35	0.1	unknown	
Dorena Hydro	April 28, 2011	Hydro	6.10	December 1, 2012	December 12, 2014	20		Standard	OR	On	20	10	N	
Douglas Country Forest Products	August 1, 2006	Biomass	6.25	August 1, 2006	August 1, 2006	5		Standard	OR	On	20	10	N	
Douglas Country Forest Products	Renewal	Biomass	6.25	Existing	Existing		5	Standard	OR	On	20	10		
Douglas Country Forest Products	Renewal	Biomass	6.25	Existing	Existing		3	Standard	OR	On	20	10		
DR Johnson	September 29, 1983	Biomass	7.50	September 29, 1983	September 29, 1983	25		Standard	OR	On	35	0.1	N	S
DR Johnson	Renewal	Biomass	7.50	Existing	Existing		1	Standard	OR	On	20	10		
Dr. Oliver Scott	February 19, 1981	Wind	< 0.1	February 19, 1981	February 19, 1981			Standard	OR	On	35	0.1	unknown	
Draper Irrigation Company	October 14, 2004	Hydro	0.51	October 14, 2004	October 14, 2004	10		Standard	UT	On	20	3	N	
Draper Irrigation Company	Renewal	Hydro	0.51	Existing	Existing		3	Standard	UT	On	20	3		
Draper Irrigation Company	Renewal	Hydro	0.51	Existing	Existing		2	Standard	UT	On	20	3		
Draper Irrigation Company	Renewal	Hydro	0.51	Existing	Existing		15	Standard	UT	On	20	3		
Dry Creek	May 2, 1986	Hydro	4.00	May 2, 1986	May 2, 1986	40		Standard	ID	On	unknown	unknown	N	
Duane Wiggins	May 23, 1985	Hydro	< 0.1	May 23, 1985	May 23, 1985	20		Standard	OR	On	35	0.1	N	S
Duane Wiggins	Renewal	Hydro	< 0.1	Existing	Existing		1	Standard	OR	On	20	10		
Duane Wiggins	Renewal	Hydro	< 0.1	Existing	Existing		1	Standard	OR	On	20	10		
Duane Wiggins	Renewal	Hydro	< 0.1	Existing	Existing		1	Standard	OR	On	20	10		
Duane Wiggins	Renewal	Hydro	< 0.1	Existing	Existing		1	Standard	OR	On	20	10		
Duane Wiggins	Renewal	Hydro	0.02	Existing	Existing		1	Standard	OR	On	20	10		
Eagle Point Irrigation District (Nichols Gap)	September 28, 1983	Hydro	0.72	September 28, 1983	September 28, 1983	30		Standard	OR	On	35	0.1	N	
Eagle Ridge Ranch	September 17, 1982	Wind	< 0.1	September 17, 1982	September 17, 1982			Standard	OR	On	35	0.1	unknown	
eBay - Solar	October 24, 2012	Solar	0.52	April 1, 2013	April 1, 2013	10		Standard	UT	On	20	3	N	
EBD Hydro (Apple)	April 6, 2012	Hydro	2.99	April 15, 2013	April 15, 2015	10		Standard	OR	On	20	10	N	
Edwards Benshoof	May 22, 1985	Wind	< 0.1	May 22, 1985	May 22, 1985			Standard	OR	On	35	0.1	unknown	
Edwards Benshoof	Renewal	Wind	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Edwards Benshoof	Renewal	Wind	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Elbe Solar Center, LLC	August 7, 2014	Solar	10.0	April 30, 2017		20		Standard	OR	On	20	10	N	
Enterprise Solar LLC	June 12, 2014	Solar	80.0	October 31, 2016		20		Non-standard	UT	On	20	3	N	
Escalante Solar I LLC	June 12, 2014	Solar	80.0	October 31, 2016		20		Non-standard	UT	On	20	3	N	
Escalante Solar II LLC	June 12, 2014	Solar	80.0	October 31, 2016		20		Non-standard	UT	On	20	3	N	
Escalante Solar III LLC	June 12, 2014	Solar	80.0	October 31, 2016		20		Non-standard	UT	On	20	3	N	
Evergreen BioPower	March 13, 2006	Biomass	10.00	January 2, 2007	January 2, 2007	10		Standard	OR	On	20	10	N	
Ewanua Solar 2 LLC	June 5, 2015	Solar	2.9	November 30, 2017		20		Standard	OR	On	20	10	N	
Ewauna Solar LLC	August 8, 2014	Solar	0.8	September 30, 2015	December 31, 2015	20		Standard	OR	On	20	10	N	
ExxonMobil Production Company	February 21, 2005	Natural Gas	107.40	January 1, 2007	January 1, 2007	3		Non-standard	WY	On	20	1	N	
ExxonMobil Production Company	Renewal	Natural Gas	107.40	Existing	Existing		3	Non-standard	WY	On	20	1		
ExxonMobil Production Company	Renewal	Natural Gas	107.40	Existing	Existing		3	Non-standard	WY	On	20	1		
Falls Creek	March 30, 1983	Hydro	4.10	May 29, 1986	May 29, 1986	40		Standard	OR	On	35	0.1	N	
Farm Power Misty Meadow	March 29, 2012	Biogas	0.75	March 29, 2012	March 29, 2012	10		Standard	OR	Off	20	10	N	
Farmers Irrigation	June 29, 1983	Hydro	4.15	June 29, 1983	June 29, 1983	25		Standard	OR	On	35	0.1	N	
Farmers Irrigation	Renewal	Hydro	4.15	Existing	Existing		20	Standard	OR	On	20	10		
Fiddler's Canyon 1	May 29, 2013	Solar	3.0	May 30, 2015	November 25, 2015	20		Standard	UT	On	20	3	N	
Fiddler's Canyon 2	May 29, 2013	Solar	3.0	May 30, 2015	November 25, 2015	20		Standard	UT	On	20	3	N	
Fiddler's Canyon 3	October 29, 2013	Solar	3.0	October 15, 2015	December 23, 2015	20		Standard	UT	On	20	3	N	
Finley Bioenergy	October 24, 2007	Biogas	4.80	October 24, 2007	October 24, 2007	10		Standard	OR	Off	20	10	N	
Firth	March 3, 1994	CHP	9.90	January 1, 1996	Terminated			Standard	ID	On	unknown	unknown	N	
Foot Creek II	June 15, 2014	Wind	1.80	Existing	Existing			Non-standard	WY	On	20	1	Y	
Foot Creek III	August 5, 2014	Wind	24.80	Existing	Existing			Non-standard	WY	On	20	1	Y	
Four Corners Windfarm LLC	June 16, 2009	Wind	10.00	September 11, 2009	October 1, 2009	20		Standard	OR	On	20	10	N	
Four Mile Canyon Windfarm LLC	June 16, 2009	Wind	10.00	September 11, 2009	October 1, 2009	20		Standard	OR	On	20	10	N	
Galesville Dam (Douglas County)	September 1, 1982	Hydro	1.80	September 1, 1982	September 1, 1982	35		Standard	OR	On	35	0.1	N	
Garland Canal (Shoshone)	April 4, 1995	Hydro	3.00	April 15, 1995	April 15, 1995	20		Standard	WY	On	unknown	1	N	

Plant Name	Power Purchase Agreement (PPA) Execution Date	Resource Type	Nameplate Capacity (megawatts (MW))	Commercial Operation Date (COD)	Actual COD	Length of Original Contract (Years)	Renewal Length (Years)	Contract Type	State	On or Off	Maximum Contract Term (Years)	Standard Contract Threshold (MW unless noted)	Operational (N=No, Y=Yes)	Status (S=Shutdown, AU= Selling to Another Utility)
General Chemical (Now Tata Chemicals)	September 15, 1989	CHP	16.00	September 15, 1989	September 15, 1989	20		Non-standard	WY	On	unknown	1	Y	
General Chemical (Now Tata Chemicals)	April 25, 2014	CHP	16.00	Existing	Existing		5	Non-standard	WY	On	20	1	Y	
Georgetown Power	July 2, 1984	Hydro	0.33	July 2, 1984	July 2, 1984	40		Standard	ID	On	unknown	unknown	N	
Granite Mountain East	April 6, 2015	Solar	80.0	October 31, 2016		20		Non-standard	UT	On	20	3	N	
Granite Mountain West	April 6, 2015	Solar	50.4	October 31, 2016		20		Non-standard	UT	On	20	3	N	
Granite Peak	October 18, 2013	Solar	3.0	July 31, 2015	August 21, 2015	20		Standard	UT	On	20	3	N	
Greenville	June 4, 2013	Solar	2.2	July 31, 2015	October 29, 2015	20		Standard	UT	On	20	3	N	
GroPro, Inc.	February 28, 2011	Biomass	0.01	March 1, 2011	March 1, 2011	3		Standard	CA	On	10	100 kW	N	
High Plateau Windfarm LLC	November 18, 2011	Wind	10.00	September 1, 2012	Terminated	20		Standard	OR	On	20	10	N	
Hill Air Force Base	January 10, 2005	Biogas	2.46	January 10, 2005	January 10, 2005	20		Standard	UT	On	20	3	N	
Hum-Lynch	July 28, 2003	Wind	0.65	July 28, 2003	Terminated	20		Standard	OR	On	20	10	N	S
Ingram Warm Springs Ranch	March 5, 1986	Hydro	0.95	March 14, 1986	March 14, 1986	40		Standard	ID	On	unknown	unknown	N	
International Paper (Weyerhaeuser)	December 18, 2006	Natural Gas	45.00	Existing	Existing	5		Non-standard	OR	On	20	10	Y	S
Iron Springs Solar	April 6, 2015	Solar	80.0	October 31, 2016		20		Standard	UT	On	20	3	N	
J Bar 9 Ranch	August 15, 2011	Wind	0.10	August 15, 2011	August 15, 2011	10		Standard	WY	On	unknown	1	N	
James A Reese	November 25, 1981	Wind	< 0.1	November 25, 1981	November 25, 1981			Standard	OR	On	35	35	unknown	
James Boyd	April 22, 1983	Hydro	1.10	January 1, 1984	January 1, 1984	20		Standard	OR	On	35	0.1	N	
James Boyd	Amended	Hydro	1.10	Existing	Terminated	5		Standard	OR	On	35	0.1		S
Jay Schurger	July 30, 1982	Hydro	< 0.1	July 30, 1982	July 30, 1982			Standard	OR	On	35	0.1	unknown	
Jim & Sharon Jans (Odell Creek)	December 28, 2010	Hydro	0.23	January 1, 2011	January 1, 2011	20		Standard	OR	On	20	10	N	
Jim & Sharon Jans (Odell Creek)	Renewal	Hydro	0.23	Existing	Existing	20		Standard	OR	On	20	10		
John S Foggy	May 2, 1983	Hydro	< 0.1	May 2, 1983	May 2, 1983			Standard	OR	On	35	0.1	unknown	
Joseph	July 30, 1982	Hydro	7.00	January 1, 1993	January 1, 1993	30		Standard	OR	On	20	0.1	N	
Joseph	Amended	Hydro	7.00	Existing	Terminated			Standard	OR	On	20	0.1		S
Kennecott Refinery	January 7, 2011	Waste Heat	7.54	January 7, 2011	January 7, 2011	3		Standard	UT	On	20	3	N	
Kennecott Refinery	Renewal	Waste Heat	7.54	Existing	Existing		1	Standard	UT	On	20	3		
Kennecott Refinery	Renewal	Waste Heat	7.54	Existing	Existing		1	Standard	UT	On	20	3		
Kennecott Smelter	September 22, 2004	Waste Heat	31.80	October 1, 2004	October 1, 2004	3		Non-standard	UT	On	20	3	Y	
Kennecott Smelter	Renewal	Waste Heat	31.80	Existing	Existing		1	Non-standard	UT	On	20	3		
Kennecott Smelter	Renewal	Waste Heat	31.80	Existing	Existing		1	Non-standard	UT	On	20	3		
Kennecott Smelter	Renewal	Waste Heat	31.80	Existing	Existing		1	Non-standard	UT	On	20	3		
Kennecott Smelter	Renewal	Waste Heat	31.80	Existing	Existing		1	Non-standard	UT	On	20	3		
Kennecott Smelter	Renewal	Waste Heat	31.80	Existing	Existing		1	Non-standard	UT	On	20	3		
Kennecott Smelter	Renewal	Waste Heat	31.80	Existing	Existing		1	Non-standard	UT	On	20	3		
Kenneth R Smith	September 10, 1985	Hydro	< 0.1	September 10, 1985	September 10, 1985			Standard	OR	On	35	0.1	unknown	
Kenneth R Smith	Unknown	Hydro	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Lacomb Irrigation (CHI)	October 28, 1982	Hydro	0.96	January 1, 1984	January 1, 1984	36		Standard	OR	On	35	0.1	N	
Lacomb Irrigation (Lacomb PPA Renegotiated)	June 19, 1998	Hydro	0.96	Existing	Existing		20	Standard	OR	On	35	0.1	Y	
Laho #1	October 18, 2013	Solar	3.0	July 31, 2015	July 14, 2015	20		Standard	UT	On	20	3	N	
Lake Siskiyou (Box Canyon)	March 14, 1983	Hydro	5.00	March 14, 1983	March 14, 1983	30		Standard	CA	On	unknown	100 kW	N	
Lakeview Power	Unknown	Biomass	25.00	January 13, 1989	Terminated	20		Non-standard	OR	On	35	0.1	N	
Latigo Wind	July 3, 2013	Wind	60.0	May 1, 2015		20		Non-standard	UT	On	20	3	N	
Leslie Ormsby	June 8, 1985	Hydro	< 0.1	June 8, 1985	June 8, 1985			Standard	OR	On	35	0.1	unknown	
Leslie Ormsby	Renewal	Hydro	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Leslie Ormsby	Renewal	Hydro	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Leslie Ormsby	Renewal	Hydro	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Leslie Ormsby	Renewal	Hydro	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Lower Ridge Windfarm LLC	November 18, 2011	Wind	10.00	September 1, 2012	Terminated	20		Standard	OR	On	20	10	N	
Lower Valley Energy	May 13, 2009	Hydro	1.70	July 16, 2009	July 16, 2009	10		Standard	ID	Off	20	10 aMW	N	
Loyd Fery	June 28, 1985	Hydro	0.04	June 28, 1985	June 28, 1985	25		Standard	OR	On	35	0.1	N	
Loyd Fery	Renewal	Hydro	0.04	Existing	Existing		1	Standard	OR	On	20	10		
Loyd Fery	Renewal	Hydro	0.04	Existing	Existing		1	Standard	OR	On	20	10		
Loyd Fery	Renewal	Hydro	0.04	Existing	Existing		1	Standard	OR	On	20	10		
Loyd Fery	Renewal	Hydro	0.04	Existing	Existing		1	Standard	OR	On	20	10		
Loyd Fery	June 15, 2015	Hydro	0.04	Existing	Existing		1	Standard	OR	On	30	10		
Luckey, Paul	April 27, 1983	Hydro	0.05	April 27, 1983	April 27, 1983	30		Standard	CA	On	unknown	100 kW	N	
Magnesium Corporation of America	May 16, 2002	Natural Gas	36.00	January 1, 2005	January 1, 2005	5		Non-standard	UT	On	20	3	N	
Magnesium Corporation of America	Renewal	Natural Gas	36.00	Existing	Existing		1	Non-standard	UT	On	20	3		
Magnesium Corporation of America	Renewal	Natural Gas	36.00	Existing	Existing		1	Non-standard	UT	On	20	3		
Magnesium Corporation of America	Renewal	Natural Gas	36.00	Existing	Existing		1	Non-standard	UT	On	20	3		
Manderfield	May 29, 2013	Solar	2.1	October 15, 2015	Terminated	20		Standard	UT	On	20	3	N	
Mariah Wind	April 1, 2014	Wind	10.0	September 1, 2015		20		Standard	OR	Off	20	10	N	
Marsh Valley Hydro & Electric Company	November 21, 1986	Hydro	1.70	November 21, 1986	November 21, 1986	40		Standard	ID	On	unknown	unknown	N	
Max Kruse	June 24, 1985	Wind	< 0.1	June 24, 1985	June 24, 1985			Standard	OR	On	35	0.1	unknown	
Max Kruse	Renewal	Wind	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Max Kruse	Renewal	Wind	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Meadow Creek Project Company - Five Pine	January 4, 2012	Wind	40.00	December 22, 2012	December 22, 2012	20		Non-standard	ID	On	20	10 aMW	N	
Meadow Creek Project Company - North Point	January 4, 2012	Wind	80.00	December 11, 2012	December 11, 2012	20		Non-standard	ID	On	20	10 aMW	N	
Merilyn Coe	January 1, 1984	Hydro	< 0.1	January 1, 1984	January 1, 1984			Standard	OR	On	35	0.1	unknown	

Plant Name	Power Purchase Agreement (PPA) Execution Date	Resource Type	Nameplate Capacity (megawatts (MW))	Commercial Operation Date (COD)	Actual COD	Length of Original Contract (Years)	Renewal Length (Years)	Contract Type	State	On or Off	Maximum Contract Term (Years)	Standard Contract Threshold (MW unless noted)	Operational (N=No, Y=Yes)	Status (S=Shutdown, AU= Selling to Another Utility)
Middlefork Irrigation District	June 29, 1983	Hydro	3.70	September 29, 1983	September 29, 1983	20		Standard	OR	On	35	0.1	N	
Middlefork Irrigation District (renewal)	June 29, 2006	Hydro	3.70	Existing	Existing		20	Standard	OR	On	20	10		
Milford 2	April 4, 2014	Solar	3.0	October 15, 2015	December 21, 2015	20		Standard	UT	On	20	3	N	
Milford Flat	October 18, 2013	Solar	3.0	July 31, 2015	July 23, 2015	40		Standard	UT	On	20	3	N	
Mink Creek Hydro	May 21, 1985	Hydro	2.70	May 21, 1985	May 21, 1985	40		Standard	ID	On	unknown	unknown	N	
Monroe Hydro (Apple)	April 9, 2012	Hydro	0.3	April 1, 2015	April 1, 2015	10		Standard	OR	On	20	10	N	
Mountain Energy	June 17, 1985	Hydro	0.05	June 17, 1985	June 17, 1985	25		Standard	OR	On	35	0.1	N	
Mountain Energy	Renewal	Hydro	0.05	Existing	Existing		1	Standard	OR	On	20	10		
Mountain Energy	Renewal	Hydro	0.05	Existing	Existing		1	Standard	OR	On	20	10		
Mountain Energy	Renewal	Hydro	0.05	Existing	Existing		1	Standard	OR	On	20	10		
Mountain Energy	November 29, 2007	Hydro	0.05	Existing	Existing		1	Standard	ID	On	20	unknown		
Mountain Wind 1	July 14, 2006	Wind	60.90	July 2, 2008	July 2, 2008	20		Non-standard	WY	On	20	1	N	
Mountain Wind 2	July 23, 2006	Wind	79.80	September 29, 2008	September 29, 2008	20		Non-standard	WY	On	20	1	N	
Mule Hollow Windfarm LLC	November 18, 2011	Wind	10.00	September 1, 2012	Terminated	20		Standard	OR	On	20	10	N	
Nicholson Sunnybar Ranch	June 27, 1985	Hydro	0.35	June 27, 1985	June 27, 1985	40		Standard	OR	On	35	0.1	N	
Nicolette and Randall Harvey	May 21, 1984	Wind	< 0.1	May 21, 1984	May 21, 1984			Standard	OR	On	35	0.1	unknown	
Norwest Energy 12 LLC (Falvey)	May 29, 2015	Solar	8.0	December 31, 2016		20		Standard	OR	On	20	10	N	
Norwest Energy 2 LLC (Neff)	May 29, 2015	Solar	9.9	December 31, 2016		20		Standard	OR	On	20	10	N	
Norwest Energy 4 LLC (Bonanza)	May 29, 2015	Solar	6.0	December 31, 2016		20		Standard	OR	On	20	10	N	
Norwest Energy 5 LLC (Arlington)	June 29, 2015	Solar	3.0	December 31, 2016		20		Standard	OR	On	20	10	N	
Norwest Energy 7 LLC (Eagle Point)	May 29, 2015	Solar	9.9	December 31, 2016		20		Standard	OR	On	20	10	N	
Norwest Energy 9 LLC (Pendleton)	June 29, 2015	Solar	6.6	November 18, 2016		20		Standard	OR	On	20	10	N	
O.J. Power Company	March 4, 1986	Hydro	0.26	March 4, 1986	March 4, 1986	40		Standard	ID	On	unknown	unknown	N	
Obsidian Renewables LLC - Beatty Solar	August 18, 2014	Solar	5.0	December 31, 2016		20		Standard	OR	On	20	10	N	
Obsidian Renewables LLC - Black Cap Solar II	July 30, 2014	Solar	8.0	December 31, 2016		20		Standard	OR	On	20	10	N	
Obsidian Renewables LLC - Ivory Pine Solar	July 30, 2014	Solar	10.0	December 31, 2016		20		Standard	OR	On	20	10	N	
Obsidian Renewables LLC - Sprague River Solar	July 30, 2015	Solar	7.0	December 31, 2016		20		Standard	OR	On	20	10	N	
OM Power I	April 11, 2012	Geothermal	10.00	November 2, 2013		15		Standard	OR	On	20	10	N	
OR Solar 1 (Sprague River Solar)	June 11, 2015	Solar	10.0	November 1, 2016		20		Standard	OR	On	20	10	N	
OR Solar 2 (Agate Bay Solar)	June 11, 2015	Solar	10.0	November 1, 2016		20		Standard	OR	On	20	10	N	
OR Solar 3 (Turkey Hill Solar)	June 11, 2015	Solar	10.0	November 1, 2016		20		Standard	OR	On	20	10	N	
OR Solar 4 (Bly Solar)	June 17, 2015	Solar	10.0	November 1, 2016		20		Standard	OR	On	20	10	N	
OR Solar 5 (Merrill)	June 17, 2015	Solar	8.0	November 1, 2016		20		Standard	OR	On	20	10	N	
OR Solar 6 (Lakeview)	June 17, 2015	Solar	10.0	November 1, 2016		20		Standard	OR	On	20	10	N	
OR Solar 7 (Jacksonville)	June 17, 2015	Solar	10.0	November 1, 2016		20		Standard	OR	On	20	10	N	
OR Solar 8 (Dairy)	June 11, 2015	Solar	10.0	November 1, 2016		20		Standard	OR	On	20	10	N	
Oregon Environmental Industries	August 16, 2006	Biogas	3.20	September 7, 2007	September 7, 2007	20		Standard	OR	On	20	10	N	
Oregon Institute of Technology	April 9, 2010	Geothermal	0.28	April 15, 2010	April 9, 2010	20		Standard	OR	On	20	10	Y	
Oregon State University	November 23, 2010	Natural Gas	6.50	January 15, 2011	December 14, 2010	10		Standard	OR	On	20	10	N	
Oregon Trail Windfarm LLC	December 19, 2008	Wind	9.90	March 31, 2009	August 1, 2009	20		Standard	OR	On	20	10	N	
Orem Family Wind	April 1, 2014	Wind	10.0	September 1, 2015		20		Standard	OR	Off	20	10	N	
OSLH - Collier Solar	June 29, 2015	Solar	9.9	November 18, 2016		20		Standard	OR	On	20	10	N	
Pacific Canyon Windfarm LLC	December 19, 2008	Wind	8.25	March 31, 2009	August 1, 2009	20		Standard	OR	On	20	10	N	
Pancheri	March 1, 1983	Hydro	0.08	March 1, 1983	March 1, 1983	30		Standard	ID	On	unknown	unknown	N	
Pavant Solar	April 11, 2014	Solar	50.0	December 31, 2015		20		Standard	UT	On	20	3	N	
Pavant Solar II LLC	March 25, 2015	Solar	50.0	December 1, 2016		20		Standard	UT	On	20	3	N	
Pine City Windfarm LLC	November 18, 2011	Wind	10.00	September 1, 2012	Terminated	20		Standard	OR	On	20	10	N	
Pioneer Wind I LLC	October 18, 2010	Wind	49.50	December 31, 2011	Terminated	20		Non-standard	WY	On	20	1	N	
Pioneer Wind II LLC	October 18, 2010	Wind	49.50	December 31, 2012	Terminated	20		Non-standard	WY	On	20	1	N	
Pioneer Wind Park I LLC	April 11, 2014	Wind	80.00	June 30, 2016		20		Non-standard	WY	On	20	1	N	
Power County Wind Park North	August 18, 2010	Wind	22.50	December 23, 2011	December 23, 2011	20		Standard	ID	On	20	10 aMW	N	
Power County Wind Park South	August 18, 2010	Wind	22.50	December 23, 2011	December 23, 2011	20		Standard	ID	On	20	10 aMW	N	
Preston City Hydro	February 24, 1982	Hydro	0.40	February 24, 1982	February 24, 1982	40		Standard	ID	On	unknown	unknown	N	
Quail Mountain	December 15, 2004	Solar	0.10	December 15, 2004	December 15, 2004	5		Standard	OR	On	20	10	N	
Quichapa 1	October 29, 2013	Solar	3.0	May 30, 2016		20		Standard	UT	On	20	3	N	
Quichapa 2	October 29, 2013	Solar	3.0	June 30, 2016		20		Standard	UT	On	20	3	N	
Quichapa 3	October 29, 2013	Solar	3.0	July 29, 2016		20		Standard	UT	On	20	3	N	
Ralph Counts	March 26, 1980	Wind	< 0.1	March 26, 1980	March 26, 1980			Standard	OR	On	35	0.1	unknown	
Ralphs Ranch, Inc	August 9, 1982	Hydro	0.10	August 9, 1982	August 9, 1982	30		Standard	CA	On	unknown	100 kW	N	
Ralphs Ranches	Renewal	Hydro	0.10	Existing	Existing		1	Standard	CA	On	10	100 kW		
RES Ag- Oak Lea	November 29, 2009	Biogas	0.17	December 5, 2011	December 5, 2011	10		Standard	OR	On	20	10	N	
REW-Rickreall	November 29, 2005	Biogas	0.85	November 29, 2005	Terminated	20		Standard	OR	On	20	10	N	
Richard G Webb	June 12, 1985	Hydro	< 0.1	June 12, 1985	June 12, 1985			Standard	OR	On	35	0.1	unknown	
Richard G Webb	Renewal	Hydro	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Richard L Roush	July 26, 1985	Wind	< 0.1	July 26, 1985	July 27, 1985			Standard	OR	On	35	0.1	unknown	
Richard L Roush	Renewal	Wind	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Richard L Roush	Renewal	Wind	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Robert Miller	May 30, 1985	Wind	< 0.1	May 29, 1985	May 30, 1985			Standard	OR	On	35	0.1	unknown	
Robert Miller	Renewal	Wind	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Roseburg Forest Products - Dillard	June 1, 2011	Biomass	20.00	Existing	Existing	2		Non-standard	OR	On	20	10	Y	
Roseburg Forest Products - Dillard	Renewal	Biomass	20.00	Existing	Existing		1	Non-standard	OR	On	20	10	Y	

Plant Name	Power Purchase Agreement (PPA) Execution Date	Resource Type	Nameplate Capacity (megawatts (MW))	Commercial Operation Date (COD)	Actual COD	Length of Original Contract (Years)	Renewal Length (Years)	Contract Type	State	On or Off	Maximum Contract Term (Years)	Standard Contract Threshold (MW unless noted)	Operational (N=No, Y=Yes)	Status (S=Shutdown, AU= Selling to Another Utility)
Roseburg Forest Products - Dillard	Renewal	Biomass	20.00	Existing	Existing		1	Non-standard	OR	On	20	10	Y	
Roseburg Forest Products - Dillard	Renewal	Biomass	20.00	Existing	Existing		1	Non-standard	OR	On	20	10	Y	
Roseburg Forest Products - Weed	November 15, 2010	Biomass	10.00	November 18, 2010	November 18, 2010	0.5		Non-standard	CA	On	10	100 kW	Y	
Roseburg Forest Products - Weed	Renewal	Biomass	10.00	Existing	Existing		0.5	Non-standard	CA	On	10	100 kW		
Roseburg Forest Products - Weed	Renewal	Biomass	10.00	Existing	Existing		0.5	Non-standard	CA	On	10	100 kW		
Roseburg Forest Products - Weed	Renewal	Biomass	10.00	Existing	Existing		0.5	Non-standard	CA	On	10	100 kW		
Roseburg Forest Products - Weed	Renewal	Biomass	10.00	Existing	Existing		6	Non-standard	CA	On	10	100 kW		
Roseburg LFG	February 18, 2011	Biogas	1.60	June 20, 2011	June 20, 2011	20		Standard	OR	On	20	10	N	
Rough & Ready Lumber	November 8, 2007	Biomass	1.28	November 8, 2007	November 8, 2007	5		Standard	OR	On	20	10	N	
Rough & Ready Lumber	February 24, 2012	Biomass	1.28	Existing	Existing		5	Standard	OR	On	20	10		
Roush Hydro, Inc	January 1, 1984	Hydro	0.08	January 1, 1984	January 2, 1984	25		Standard	OR	On	35	0.1	N	
Roush Hydro, Inc	Renewal	Hydro	0.08	Existing	Existing		3	Standard	OR	On	20	10		
Roush Hydro, Inc	Renewal	Hydro	0.08	Existing	Existing		1	Standard	OR	On	20	10		
Roush Hydro, Inc	Renewal	Hydro	0.08	Existing	Existing		1	Standard	OR	On	20	10		
Roush Hydro, Inc	Renewal	Hydro	0.08	Existing	Existing		1	Standard	OR	On	20	10		
Roush Hydro, Inc	June 8, 2015	Hydro	0.08	Existing	Existing		1	Standard	OR	On	20	10		
Royal Oak	January 1, 1988	Biomass	5.00	January 13, 1988	January 14, 1988	20		Standard	OR	On	35	0.1	N	S
Royal Oak	Renewal	Biomass	5.00	Existing	Existing	5		Standard	OR	On	30	10		
Russell Berard	Unknown	Hydro	< 0.1	July 26, 1985	July 27, 1985			Standard	OR	On	35	0.1	unknown	
Russell Berard	Renewal	Hydro	< 0.1	Existing	Existing			Standard	OR	On	35	0.1		
Sand Ranch Windfarm LLC	January 19, 2008	Wind	9.90	March 31, 2009	August 1, 2009	20		Standard	OR	On	20	10	N	
Santiam Hydro Control District	September 30, 1983	Hydro	0.16	September 30, 1983	September 30, 1983	30		Standard	OR	On	35	0.1	N	
Schwendiman	March 31, 2006	Wind	20.00	March 31, 2006	Terminated	20		Standard	ID	On	not defined	10 aMW	N	
Simplot Phosphates, LLC	January 1, 2002	Waste Heat	9.50	January 1, 2007	January 1, 2007	5		Standard	WY	On	not defined	1	N	
Siskiyou Opportunity Center	November 3, 2006	Biomass	0.03	November 3, 2006	November 3, 2006	5		Standard	OR	On	20	10	N	
Slate Creek	January 1, 1982	Hydro	4.20	January 21, 1982	October 29, 1982	40		Standard	CA	On	unknown	100 kW	N	
South Millford	May 29, 2013	Solar	3.0	May 30, 2015	April 1, 2015	20		Standard	UT	On	20	3	N	
Spanish Fork Wind Park 2	June 30, 2006	Wind	18.90	July 31, 2008	July 31, 2008	20		Non-standard	UT	On	20	3	N	
Sprague Hydro (North Fork Sprague)	September 26, 1980	Hydro	0.75	September 28, 1983	September 28, 1983	40		Standard	OR	On	35	0.1	N	
St. Anthony	December 20, 2012	Hydro	0.50	November 30, 2013	October 11, 2014	20		Standard	ID	On	not defined	10 aMW	N	
Stahlbush Island Farms	March 19, 2009	Biogas	1.60	April 17, 2009	April 17, 2009	5		Standard	OR	On	20	10	N	
Stahlbush Island Farms (renewal)	March 19, 2011	Biogas	1.60	Existing	Existing		3	Standard	OR	On	20	10		
Sunderland Dairy	September 22, 2005	Biogas	0.15	September 22, 2005	September 22, 2005	5		Standard	UT	On	20	3	N	
Sunnyside Cogeneration Associates	January 30, 1987	Waste Coal	53.00	September 1, 1993	September 1, 1993	30		Non-standard	UT	On	unknown	3	N	
Swalley Irrigation District	September 4, 2009	Hydro	0.75	November 10, 2009	November 10, 2009	20		Standard	OR	On	20	10	N	
Tesoro Refining and Marketing Company	August 27, 2004	Natural Gas	25.00	September 15, 2004	September 15, 2004	3		Non-standard	UT	On	20	3	N	
Tesoro Refining and Marketing Company	Renewal	Natural Gas	25.00	Existing	Existing		1	Non-standard	UT	On	20	3		
Tesoro Refining and Marketing Company	Renewal	Natural Gas	25.00	Existing	Existing		1	Non-standard	UT	On	20	3		
Tesoro Refining and Marketing Company	Renewal	Natural Gas	25.00	Existing	Existing		1	Non-standard	UT	On	20	3		
Tesoro Refining and Marketing Company	Renewal	Natural Gas	25.00	Existing	Existing		1	Non-standard	UT	On	20	3		
Tesoro Refining and Marketing Company	Renewal	Natural Gas	25.00	Existing	Existing		1	Non-standard	UT	On	20	3		
Tesoro Refining and Marketing Company	Renewal	Natural Gas	25.00	Existing	Existing		1	Non-standard	UT	On	20	3		
Tesoro Refining and Marketing Company	Renewal	Natural Gas	25.00	Existing	Existing		1	Non-standard	UT	On	20	3		
Thayn Ranch Hydro	April 1, 1992	Hydro	0.48	April 1, 1992	April 1, 1992	25		Standard	UT	On	unknown	3	N	
Three Peaks Power	August 15, 2015	Solar	80.0	October 31, 2016		20		Non-standard	UT	On	20	3	N	
Threemile Canyon Wind I LLC	June 19, 2009	Wind	9.90	June 19, 2009	June 20, 2009	0.5		Standard	OR	On	20	10	N	
Threemile Canyon Wind I LLC	Renewal	Wind	9.90	Existing	Existing		0.5	Standard	OR	On	20	10		
Threemile Canyon Wind I LLC	Renewal	Wind	9.90	Existing	Existing		0.5	Standard	OR	On	20	10		
Threemile Canyon Wind I LLC	Renewal	Wind	9.90	Existing	Existing		0.5	Standard	OR	On	20	10		
Threemile Canyon Wind I LLC	Renewal	Wind	9.90	Existing	Existing		0.5	Standard	OR	On	20	10		
Threemile Canyon Wind I LLC	Renewal	Wind	9.90	Existing	Existing		0.5	Standard	OR	On	20	10		
Threemile Canyon Wind I LLC	Renewal	Wind	9.90	Existing	Existing		0.5	Standard	OR	On	20	10		
Threemile Canyon Wind I LLC	Renewal	Wind	9.90	Existing	Existing		1	Standard	OR	On	20	10		
Threemile Canyon Wind I LLC	Renewal	Wind	9.90	Existing	Existing		15	Standard	OR	On	20	10		
TMF Biofuels	February 16, 2012	Biogas	4.80	February 21, 2012	February 21, 2012	10		Standard	OR	On	20	10	N	
TGS	February 2, 1985	Hydro	0.28	February 2, 1985	February 2, 1985	20		Standard	ID	On	not defined	unknown	N	S
Tumbleweed Solar	October 12, 2015	Solar	9.9	December 16, 2016		20		Standard	OR	On	20	10	N	
Utah Red Hills Renewable Park	September 27, 2013	Solar	80.0	January 1, 2017	December 15, 2015	20		Non-standard	UT	On	20	3	N	
Vaune Dillmann	April 18, 1983	Wind	< 0.1	April 18, 1983	April 18, 1983			Standard	OR	On	35	0.1	unknown	
Wadeland South Dairy	December 14, 2004	Biogas	0.13	December 14, 2004	December 14, 2004	10		Standard	UT	On	20	3	N	
Wagon Trail LLC	December 19, 2008	Wind	3.30	March 31, 2009	August 1, 2009	20		Standard	OR	On	20	10	N	
Walla Walla, City of	July 11, 1984	Hydro	2.00	July 11, 1984	July 11, 1984	30		Standard	WA	On	unknown	2	N	AU
Ward Butte Windfarm LLC	December 19, 2008	Wind	6.60	March 31, 2009	August 1, 2009	20		Standard	OR	On	20	10	N	
Warm Springs Forest Products	September 25, 1989	Biomass	9.00	September 25, 1989	September 25, 1989			Standard	OR	On	35	0.1	unknown	
Warm Springs Hydro, LLC	May 4, 2014	Hydro	2.8	August 31, 2015		20		Standard	OR	On	20	10	N	
Wasatch Integrated Waste Management District	April 1, 1994	Biogas	1.60	April 1, 1994	April 1, 1994	20		Standard	UT	On	unknown	unknown	N	
Wasatch Integrated Waste Management District	Renewal	Biogas	1.60	Existing	Existing		10	Standard	UT	On	20	3		
Weber County, State of Utah	December 16, 2004	Biogas	0.95	December 16, 2004	December 16, 2004	20		Standard	UT	On	20	3	N	
Woodline Solar LLC	June 5, 2015	Solar	8.0	November 30, 2017		20		Standard	OR	On	20	10	N	

Plant Name	Power Purchase Agreement (PPA) Execution Date	Resource Type	Nameplate Capacity (megawatts (MW))	Commercial Operation Date (COD)	Actual COD	Length of Original Contract (Years)	Renewal Length (Years)	Contract Type	State	On or Off	Maximum Contract Term (Years)	Standard Contract Threshold (MW unless noted)	Operational (N=No, Y=Yes)	Status (S=Shutdown, AU= Selling to Another Utility)
Yakima Tieton (Cowiche)	June 12, 1985	Hydro	1.47	June 12, 1985	June 12, 1985	25		Standard	WA	On	unknown	unknown	N	
Yakima Tieton (Cowiche)	Renewal	Hydro	1.47	Existing	Existing		1	Standard	WA	On	5	2		
Yakima Tieton (Cowiche)	Renewal	Hydro	1.47	Existing	Existing		1	Standard	WA	On	5	2		
Yakima Tieton (Cowiche)	Renewal	Hydro	1.47	Existing	Existing		1	Standard	WA	On	5	2		
Yakima Tieton (Cowiche)	Renewal	Hydro	1.47	Existing	Existing		2	Standard	WA	On	5	2		
Yakima Tieton (Orchards)	June 12, 1985	Hydro	1.47	June 12, 1985	June 13, 1985	25		Standard	WA	On	unknown	unknown	N	
Yakima Tieton (Orchards)	Renewal	Hydro	1.47	Existing	Existing		1	Standard	WA	On	5	2		
Yakima Tieton (Orchards)	Renewal	Hydro	1.47	Existing	Existing		1	Standard	WA	On	5	2		
Yakima Tieton (Orchards)	Renewal	Hydro	1.47	Existing	Existing		1	Standard	WA	On	5	2		
Yakima Tieton (Orchards)	Renewal	Hydro	1.47	Existing	Existing		2	Standard	WA	On	5	2		

REC Data Request 4.4

Please refer to PAC/200, Griswold/15, since 2000, in total for each year and for each QF that did not generate or get constructed, please identify the:

- (1) amount of network transmission the company acquired to move the generation to load;
- (2) costs of the network transmission the company acquired to move the generation to load;
- (3) benefits associated with any resale of the transmission the company acquired to move the generation to load; and
- (4) additional transmission costs paid by ratepayers.

Please provide supporting documentation in Excel or other electronic format.

Response to REC Data Request 4.4

- (1) The Company requests Network Resource Designation in the amount of the nameplate capacity rating (megawatts (MW)) of the qualifying facility (QF) project at the time of execution of the QF power purchase agreement (PPA). As a Designated Network Resource, the Company would utilize Network Transmission to move the QF generation output to load. Under situations when a QF has been granted Designated Network Resource status but is not generating the associated Network Transmission would still exist at the level of the Designated Network Resource. Please refer to Attachment REC 4.4.
- (2) The cost of Network Transmission for the Company to serve load is solely dependent on the level of network load and not the MW amount of Designated Network Resource.
- (3) There is no resale of Network Transmission associated with PacifiCorp Network Transmission allocations to serve retail load.
- (4) Please refer to the Company's response to subpart (2) above.

					(1)	(2)	(3)	(4)
Plant Name	Power Purchase Agreement (PPA) Execution Date	Nameplate Capacity (megawatts (MW))	Scheduled Commercial Operation Date (COD)	Status	Designated Network Resource Requested (MW)	Network Transmission Cost (\$000)	Network Transmission Resale (\$000)	Network Transmission Cost to Ratepayers (\$000)
Hurn-Lynch	28-Jul-03	0.70	28-Jul-03	Terminated	0.70			
REW-Rickreall	29-Nov-05	0.90	29-Nov-05	Terminated	0.90			
Desert Power	24-Sep-04	95.00	1-Jan-06	Terminated	95.00			
Schwendiman	31-Mar-06	20.00	31-Mar-06	Terminated	20.00			
Pioneer Wind I LLC	18-Oct-10	49.50	31-Dec-11	Terminated	49.50			
CBG Portland	23-Feb-12	3.00	23-Feb-12	Delayed	3.00			
High Plateau Windfarm LLC	18-Nov-11	10.00	1-Sep-12	Terminated	10.00			
Lower Ridge Windfarm LLC	18-Nov-11	10.00	1-Sep-12	Terminated	10.00			
Mule Hollow Windfarm LLC	18-Nov-11	10.00	1-Sep-12	Terminated	10.00			
Pine City Windfarm LLC	18-Nov-11	10.00	1-Sep-12	Terminated	10.00			
AG Hydro	31-Mar-12	10.00	1-Nov-12	Delayed	10.00			
Pioneer Wind II LLC	18-Oct-10	49.50	31-Dec-12	Terminated	49.50			
OM Power I	11-Apr-12	10.00	2-Nov-13	Delayed	10.00			
Blue Mountain Wind	3-Jul-13	80.00	1-May-15	Terminated	80.00			
Warm Springs Hydro, LLC	4-May-14	2.80	31-Aug-15	Delayed	2.80			
Mariah Wind	1-Apr-14	10.00	1-Sep-15	Delayed	10.00			
Orem Family Wind	1-Apr-14	10.00	1-Sep-15	Delayed	10.00			
Manderfield	29-May-13	2.10	15-Oct-15	Terminated	2.10			

Please refer to the Company's response to REC Data Request 4.4; specifically subparts (2), (3) and (4)

NOTE: Data sorted by year of qualifying facility (QF) PPA scheduled COD

Total Designated Network Resource requested for QFs not operating or constructed (MW)

Year QF PPA Executed	(MW)
2000	
2001	
2002	
2003	0.70
2004	
2005	0.90
2006	115.00
2007	
2008	
2009	
2010	
2011	49.50
2012	102.50
2013	10.00
2014	
2015	104.90
TOTAL	383.50

REC Data Request 4.5

Please refer to PAC/200, Griswold/15, since 2000, in total for each year and for each QF that did not generate or get constructed, please identify:

- (1) the amount of replacement power the company purchased;
- (2) the costs of replacement power;
- (3) any revenues or costs savings associated with not purchasing the net output (penalties paid by the QF, lower market price purchases); and
- (4) the additional power costs paid by ratepayers.

Please provide supporting documentation in Excel or other electronic format.

Response to REC Data Request 4.5

The Company does not color code replacement power from each facility. The Company balances its load and resources each hour within its balancing area, completing front office transactions (FOT) or operation of its own generating assets for shortfalls or excess energy in any hour. The cost of replacement power is difficult to measure therefore calculation of qualifying facility (QF) replacement power as described in the power purchase agreement (PPA) represents a fair and equitable calculation of the cost to the Company to replace the power not provided by the QF.

Please refer to Attachment REC 4.5. The replacement power volumes and costs have been prepared consistent with the QF PPA terms and conditions. The revenues identified reflect amounts recovered from the QF. With regard to the additional power costs paid by ratepayers, please refer to the Company's response to REC Data Request 4.7.

Plant Name	Power Purchase Agreement (PPA) Execution Date	Nameplate Capacity (megawatts (MW))	Scheduled Commercial Operation Date (COD)	Status	(1)	(2)	(3)
					Replacement Power Purchased (Megawatt-hours (MWh))	Replacement Power Cost (\$'000)	Replacement Power Benefits or Cost Savings (\$'000)
Hurn-Lynch	28-Jul-03	0.70	28-Jul-03	Terminated	Contract price greater than market price - no default damages		
REW-Rickreall	29-Nov-05	0.90	29-Nov-05	Terminated	12,569	\$43	
Desert Power	24-Sep-04	95.00	1-Jan-06	Terminated	Project declared bankruptcy		
Schwendiman	31-Mar-06	20.00	31-Mar-06	Delayed and Terminated	95,304	\$411	\$102
Pioneer Wind I LLC	18-Oct-10	49.50	31-Dec-11	Terminated	Contract price greater than market price - no default damages		
CBG Portland	23-Feb-12	3.00	23-Feb-12	Delayed	Contract price greater than market price - no delay damages to date		
High Plateau Windfarm LLC	18-Nov-11	10.00	1-Sep-12	Terminated	Contract price greater than market price - no default damages		
Lower Ridge Windfarm LLC	18-Nov-11	10.00	1-Sep-12	Terminated	Contract price greater than market price - no default damages		
Mule Hollow Windfarm LLC	18-Nov-11	10.00	1-Sep-12	Terminated	Contract price greater than market price - no default damages		
Pine City Windfarm LLC	18-Nov-11	10.00	1-Sep-12	Terminated	Contract price greater than market price - no default damages		
AG Hydro	31-Mar-12	10.00	1-Nov-12	Delayed	Contract price greater than market price - no delay damages to date		
Pioneer Wind II LLC	18-Oct-10	49.50	31-Dec-12	Terminated	Contract price greater than market price - no default damages		
OM Power I	11-Apr-12	10.00	2-Nov-13	Delayed	Contract price greater than market price - no delay damages to date		
Blue Mountain Wind	3-Jul-13	80.00	1-May-15	Terminated	Contract price greater than market price - no default damages		
Warm Springs Hydro, LLC	4-May-14	2.80	31-Aug-15	Delayed	Contract price greater than market price - no default damages		
Mariah Wind	1-Apr-14	10.00	1-Sep-15	Delayed	Contract price greater than market price - no delay damages to date		
Orem Family Wind	1-Apr-14	10.00	1-Sep-15	Delayed	Contract price greater than market price - no delay damages to date		
Manderfield	29-May-13	2.10	15-Oct-15	Terminated	Contract price greater than market price - no default damages		

NOTE: Data sorted by year of qualifying facility (QF) PPA scheduled COD

Summary of Replacement Power (MW)

Year QF PPA Executed	(MW)
2000	
2001	
2002	
2003	0.70
2004	
2005	0.90
2006	115.00
2007	
2008	
2009	
2010	
2011	49.50
2012	102.50
2013	10.00
2014	
2015	104.90

Plant Name	Power Purchase Agreement (PPA) Execution Date	Nameplate Capacity (megawatts (MW))	Scheduled Commercial Operation Date (COD)	Status	Replacement Power Purchased (Megawatt-hours (MWh))	Replacement Power Cost (\$'000)	Replacement Power Benefits or Cost Savings (\$'000)
TOTAL	383.50						

UM 1734 / PacifiCorp
January 7, 2016
REC 4th Set Data Request 4.6

REC Data Request 4.6

Please refer to PAC/200, Griswold/15, since 2000, in total for each year and for each QF that did not generate or get constructed, please identify the total detriment or benefit to the company associated with each QF that did not generate or get constructed. Please provide supporting documentation in Excel or other electronic format.

Response to REC Data Request 4.6

The Company objects to this request as overly broad, not reasonably calculated to lead to the discovery of admissible evidence, as requesting information not maintained by the Company in the ordinary course of business, and as requesting development of a special study. Without waiving these objections, the Company responds as follows:

The Company does not track the total detriment or benefit associated with any qualifying facility (QF) that did not generate or was not constructed except through net power costs (NPC). Please refer to the Company's response to REC Data Request 4.7.

UM 1734 / PacifiCorp
January 7, 2016
REC 4th Set Data Request 4.7

REC Data Request 4.7

Please refer to PAC/200, Griswold/15, since 2000, in total for each year and for each QF that did not generate or get constructed, please identify the total increase or decrease in rates to customers associated with each QF that did not generate or get constructed. Please identify all Oregon Public Utility Commission orders approving the rate increase or decrease, and provide supporting documentation in Excel or other electronic format.

Response to REC Data Request 4.7

The Company objects to this request as overly broad, not reasonably calculated to lead to the discovery of admissible evidence, as requesting information not maintained by the Company in the ordinary course of business, and as requesting development of a special study. Without waiving these objections, the Company responds as follows:

Please refer to Confidential Attachment REC 4.7, which provides an estimate of the total Company net power costs (NPC) impact associated with qualifying facility (QF) generation that was included in rates but was delayed or terminated. The Company has not prepared an estimate of the rate impact to customers, but has provided the impact relative to the overall NPC in rates. Details on the treatment in rates of the two small QFs with expected online dates prior to 2006 are not readily available.

Note: despite the delayed or terminated projects identified above, recent actual QF expenses have generally exceeded the amounts included in rates. Notably, rates in calendar year 2012 did not include the Biomass One contract, as it was executed after rates were finalized.

The Public Utility Commission of Oregon (OPUC) orders approving rates for the affected rate-effective periods were as follows:

2006 – Order 05-1050, September 28, 2005
2007 – Order 06-530, September 14, 2006
2008 – Order 07-446, October 17, 2007
2011 – Order 10-363, September 16, 2010, and Order 10-456, November 18, 2010
2012 – Order 11-435, November 4, 2011
2013 – Order 12-409, October 29, 2012
2014 – Order 13-387, October 28, 2013
2015 – Order 14-331, October 1, 2014

The confidential attachment is designated as Protected Information under Order No. 15-259 and may only be disclosed to qualified persons as defined in that order.

**ONE-PAGE SUMMARY OF JONATHAN M. WEISGALL'S STATEMENT
BERKSHIRE HATHAWAY ENERGY
June 4, 2015**

1. Adopt the following set of PURPA modernization changes:

- a. Expand the definition of “comparable markets” that are eligible for termination of the mandatory purchase requirement to include voluntary, auction-based energy imbalance markets and other sub-hourly markets.
- b. Terminate the mandatory purchase obligation upon a state regulatory agency determination if certain conditions are met.
- c. Eliminate the presumption in FERC regulations that QFs under 20 MW do not have nondiscriminatory access to markets if certain conditions are met.
- d. Enable utilities to rebut FERC’s assumption that QFs are independent for purposes of applying the 20- or 80-MW size limitations where the sites are located more than one mile apart by demonstrating that the facilities are part of a common enterprise.

2. Improve the federal transmission permitting, siting, and review processes.

- a. Create a specific timeframe for federal agency review.
- b. Transfer the DOE’s Section 216(h) lead agency coordinating authority to FERC or as an alternative create a “Transmission Ombudsperson” within FERC with authority to resolve interagency conflicts, set and enforce deadlines applicable to the other agencies participating in the review of a particular project, and require that any extension requests be approved first by the Secretary who has jurisdiction over the requesting agency.

3. Encourage states to minimize cost-shifting among customers.